

FIG. 1

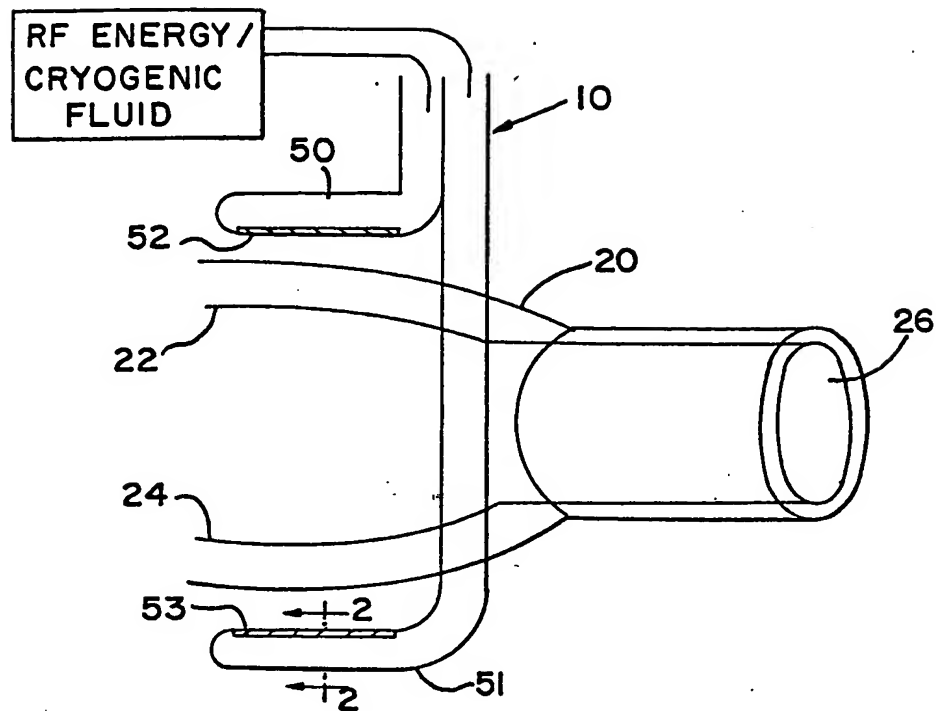


FIG. 2

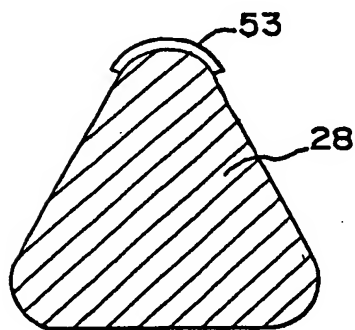


FIG. 3

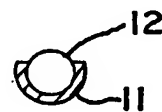


FIG. 4

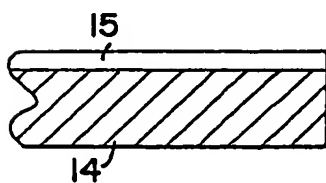


FIG. 5

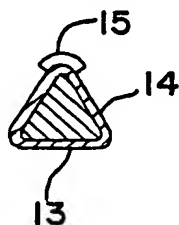


FIG. 6

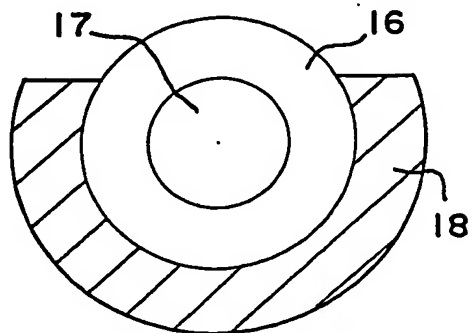


FIG. 7

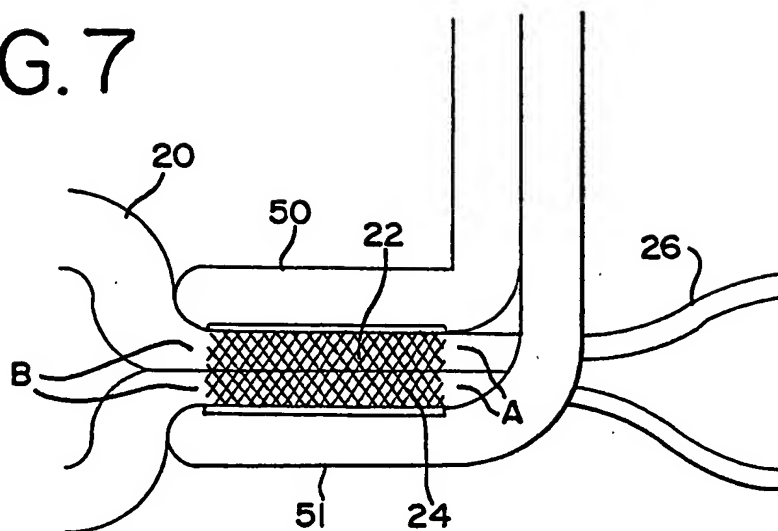


FIG. 8

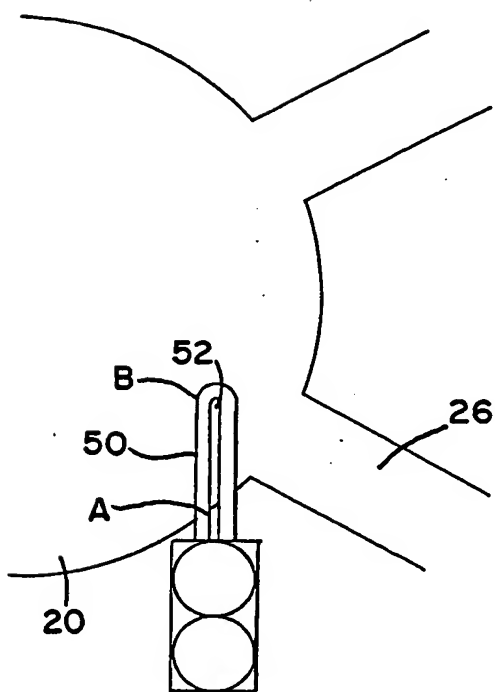


FIG. 9

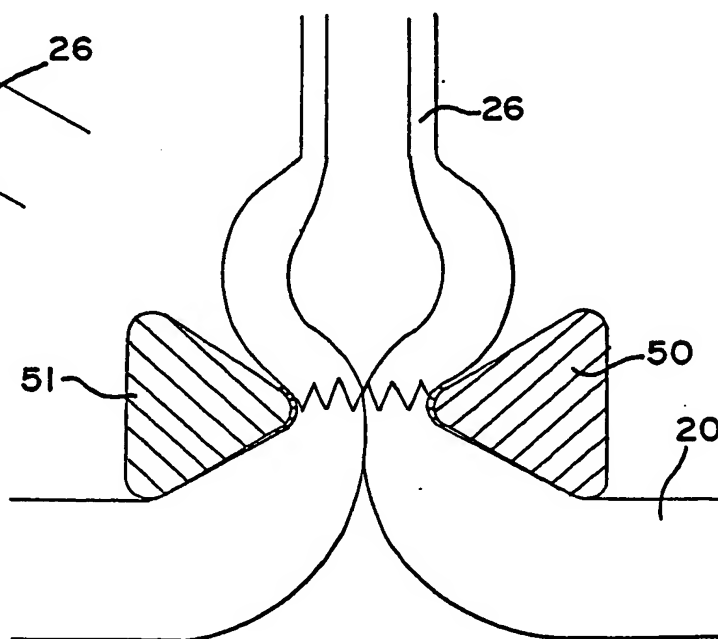


FIG.10

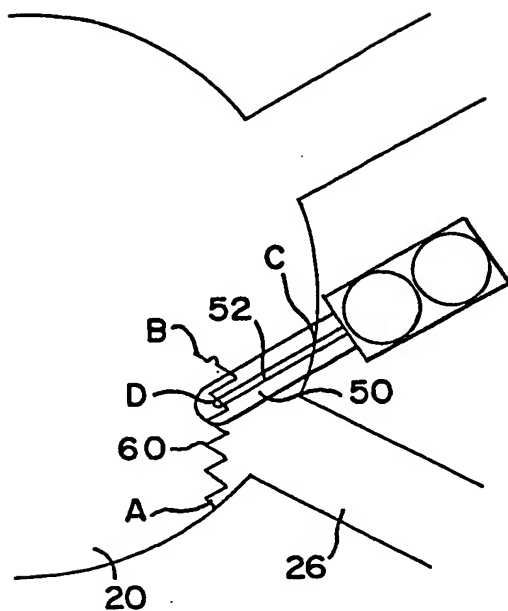


FIG.11

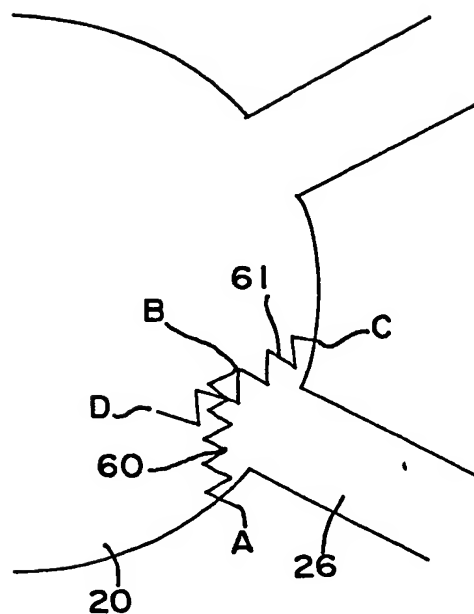


FIG.12

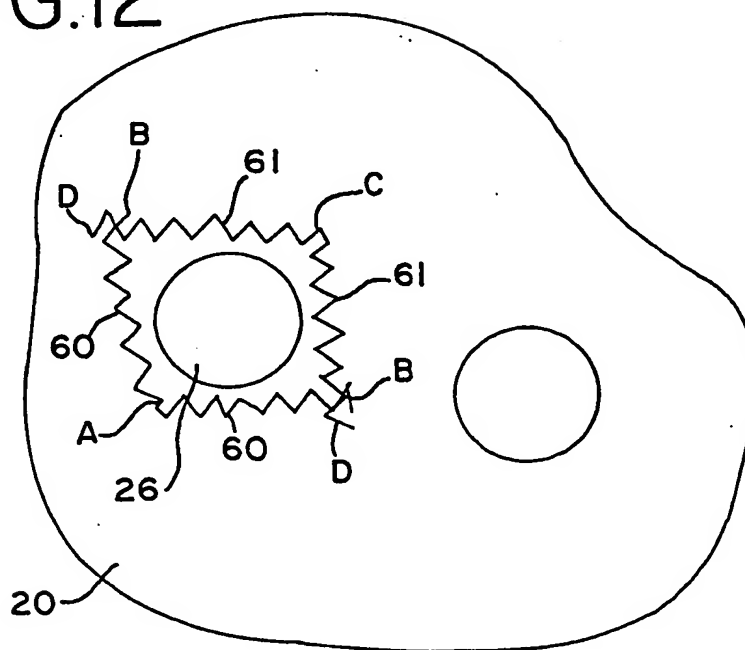


FIG.13

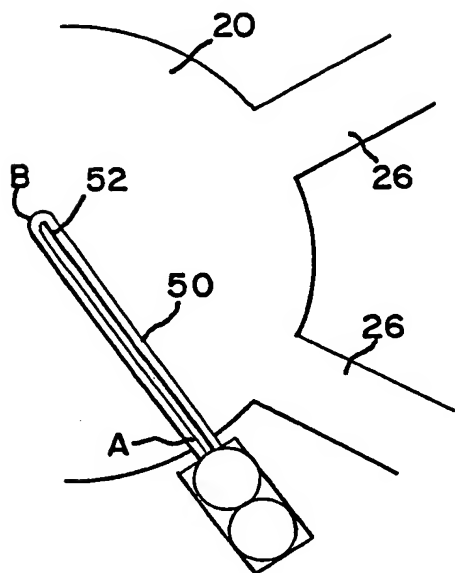


FIG.14

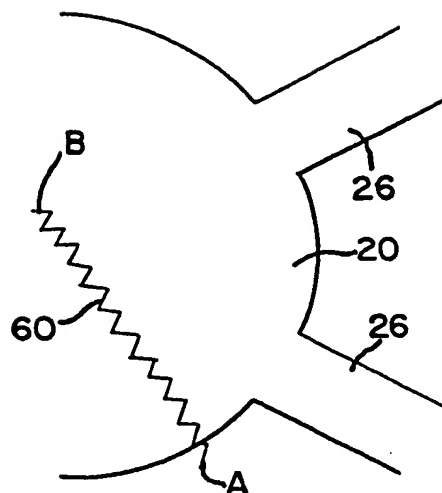


FIG.16

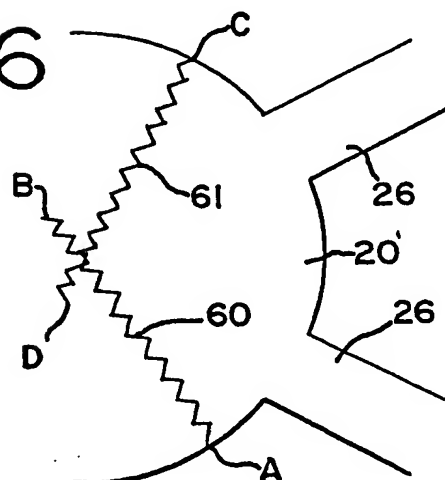


FIG.15

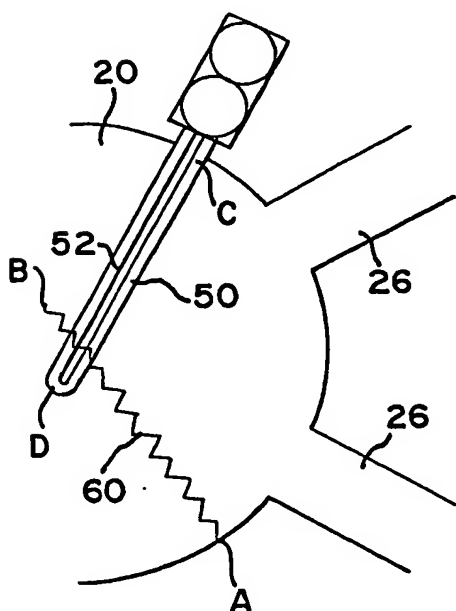


FIG.17

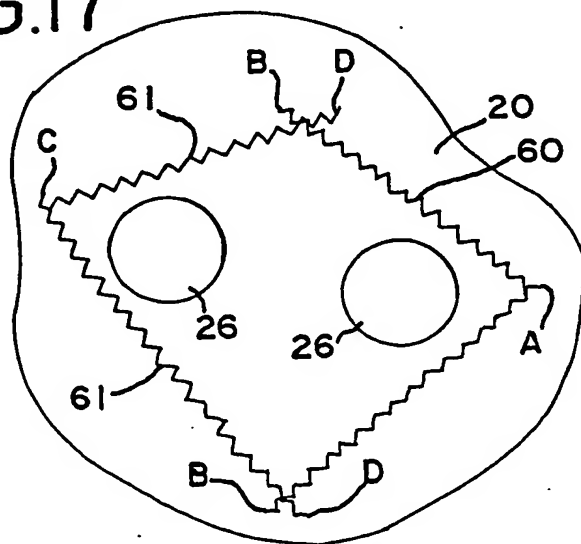


FIG. 18

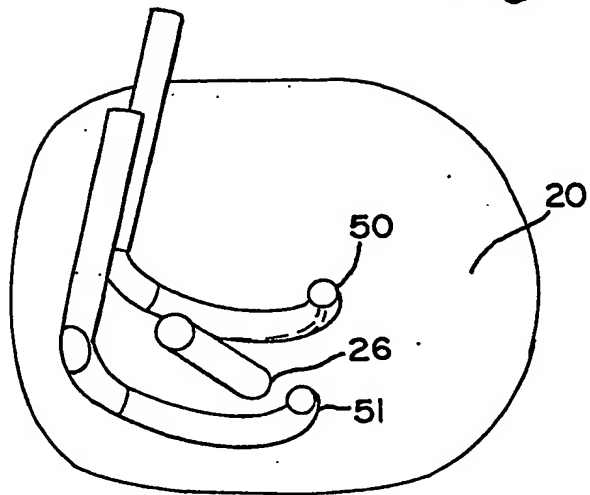


FIG. 20

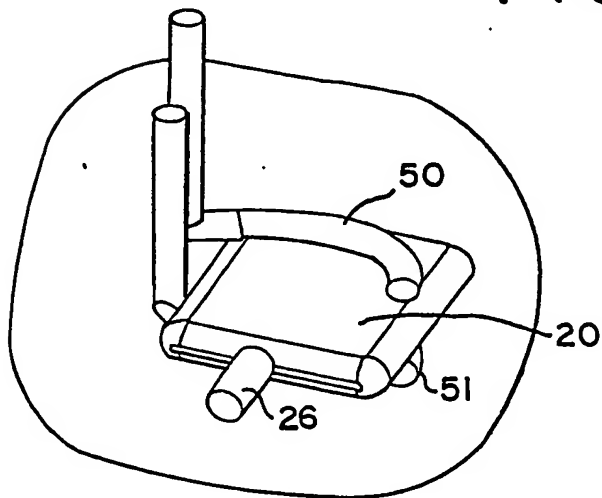


FIG. 19

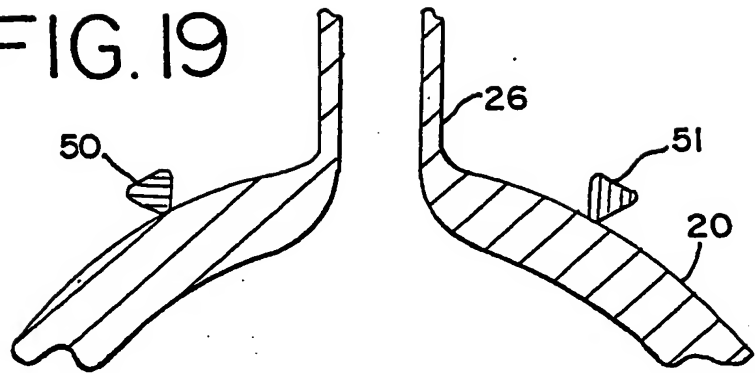


FIG. 21

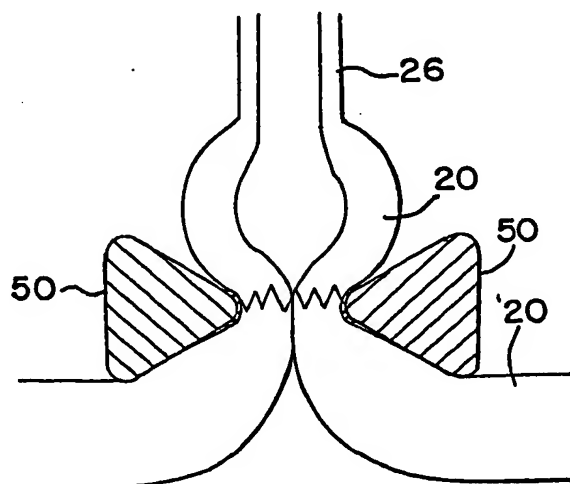


FIG. 22

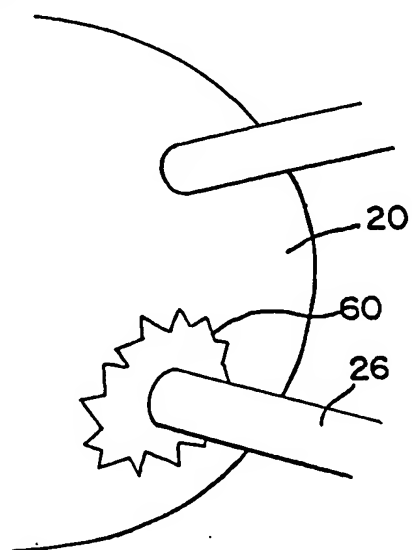


FIG.24

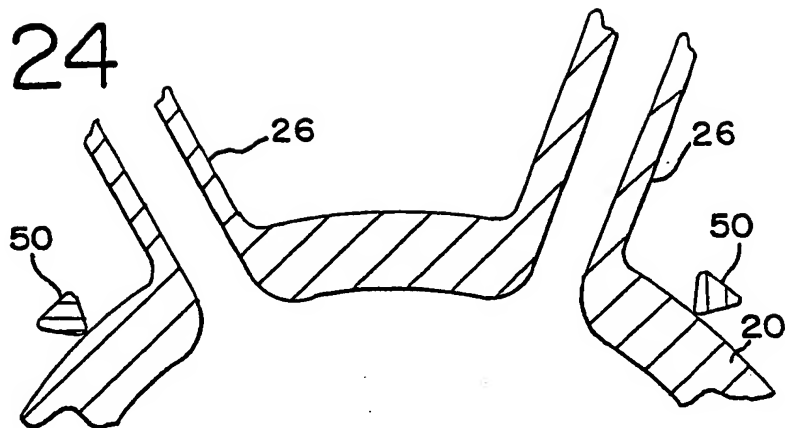


FIG.23

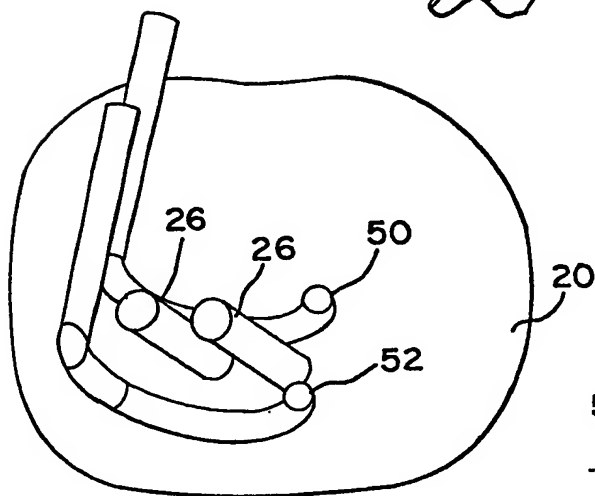


FIG.26

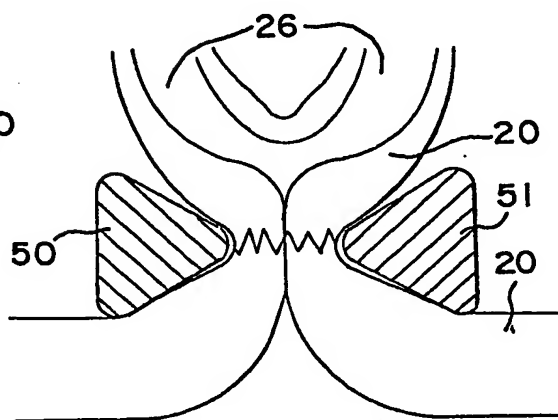


FIG.25

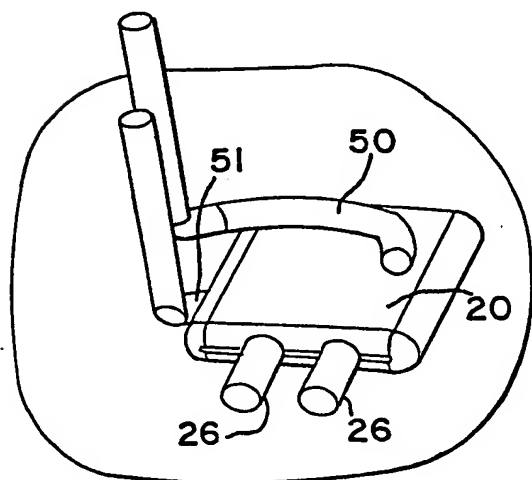
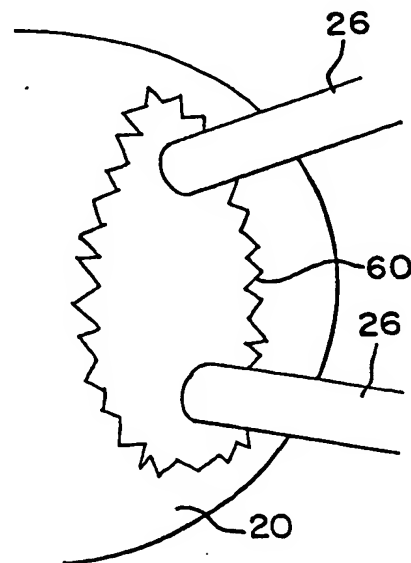


FIG.27



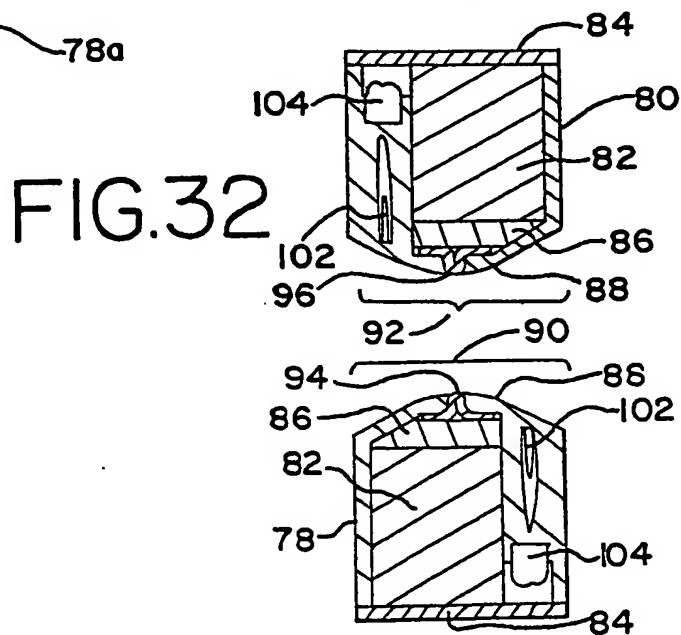
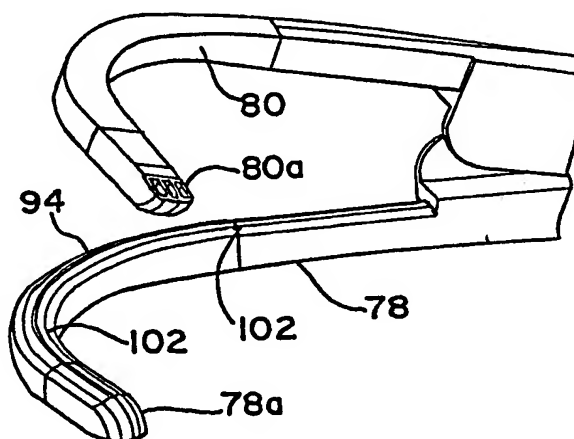
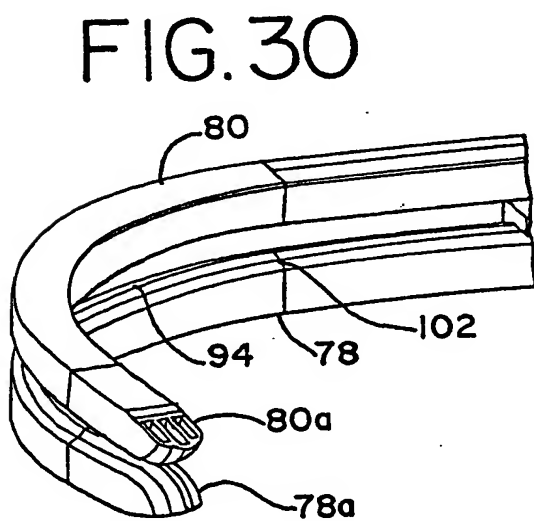
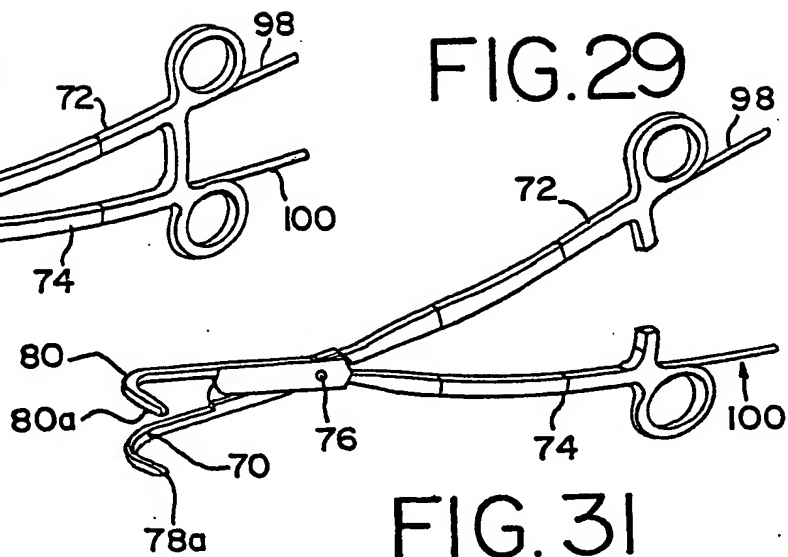
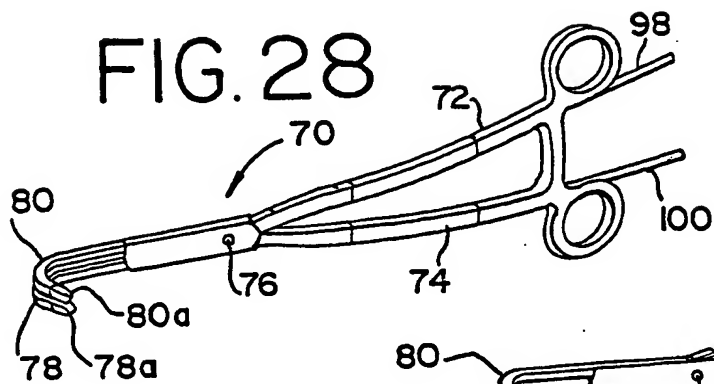


FIG. 33

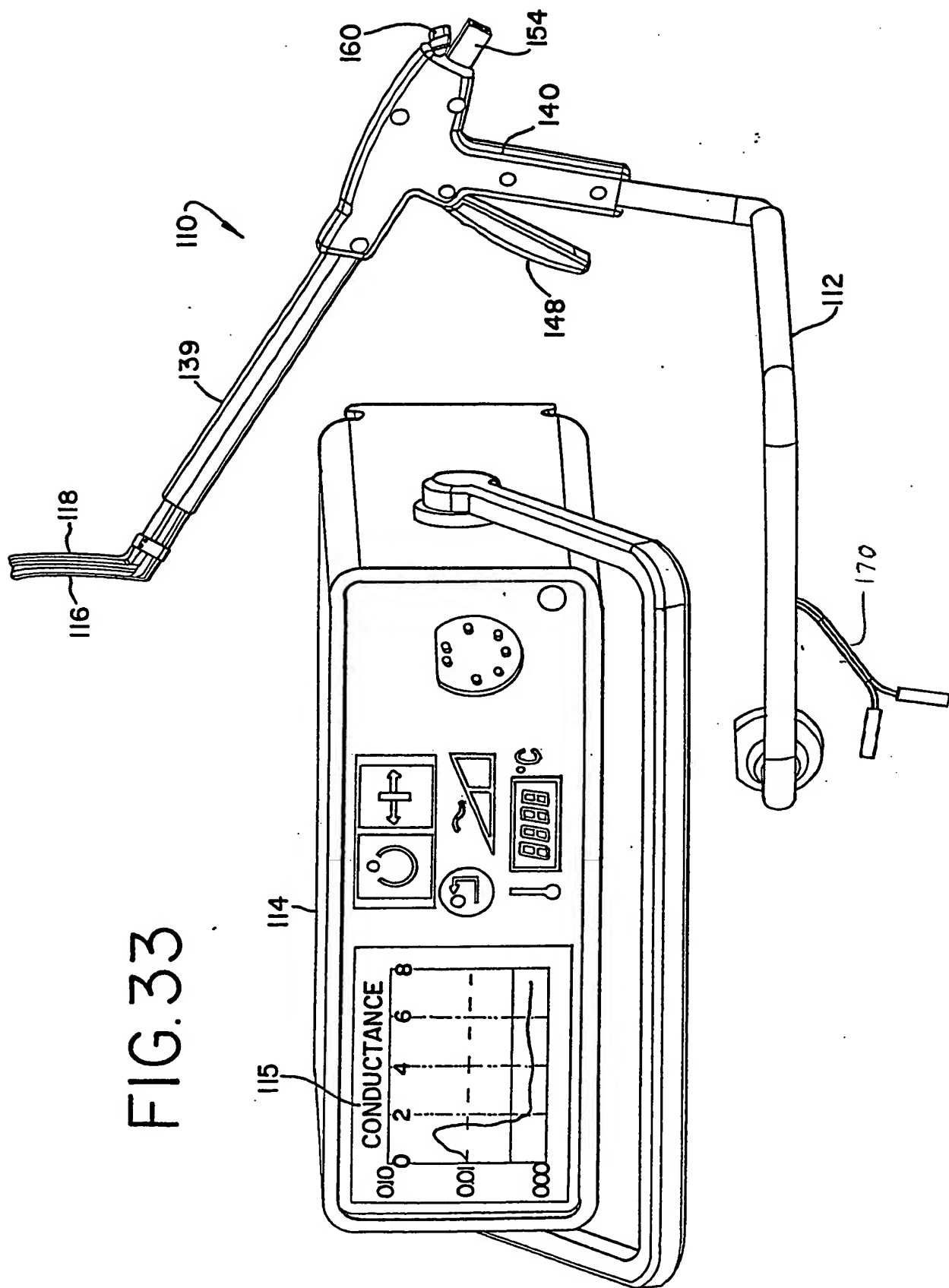


FIG. 34

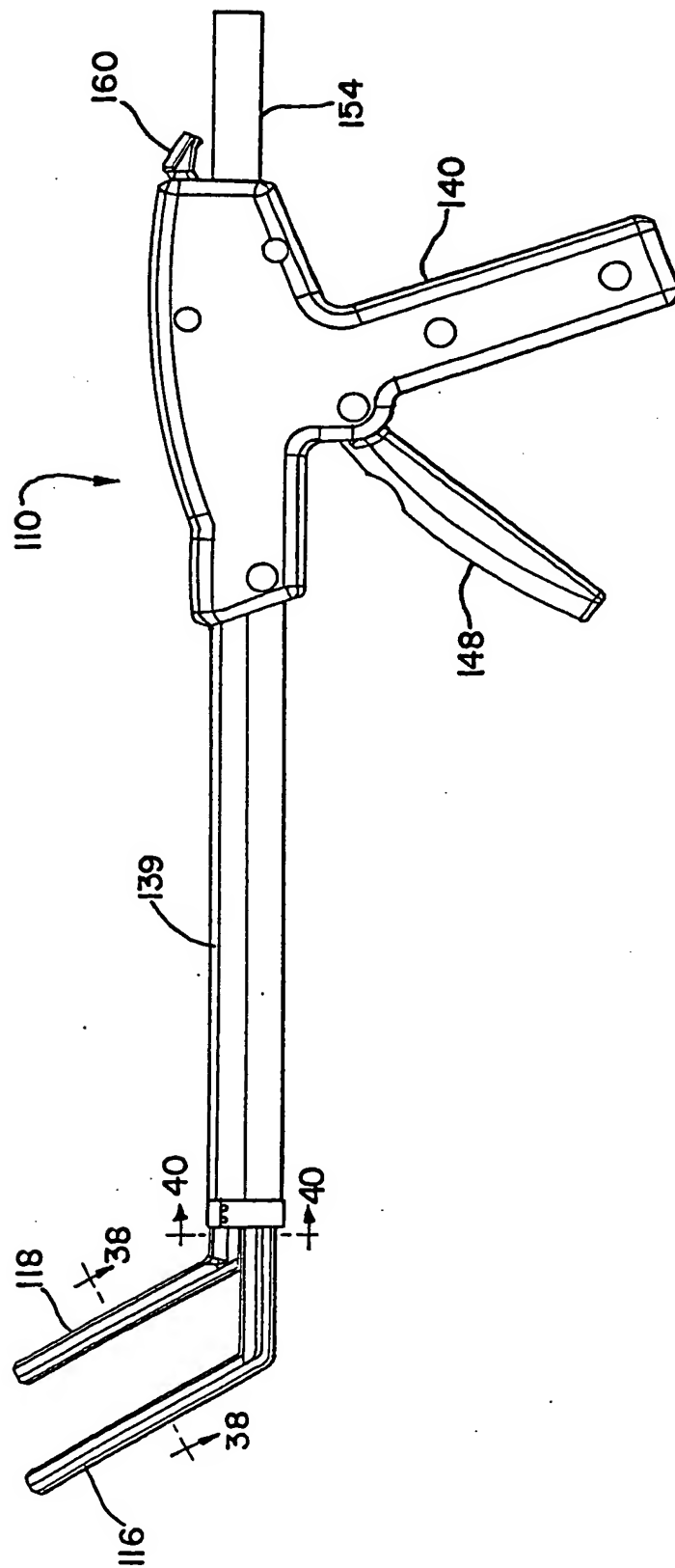
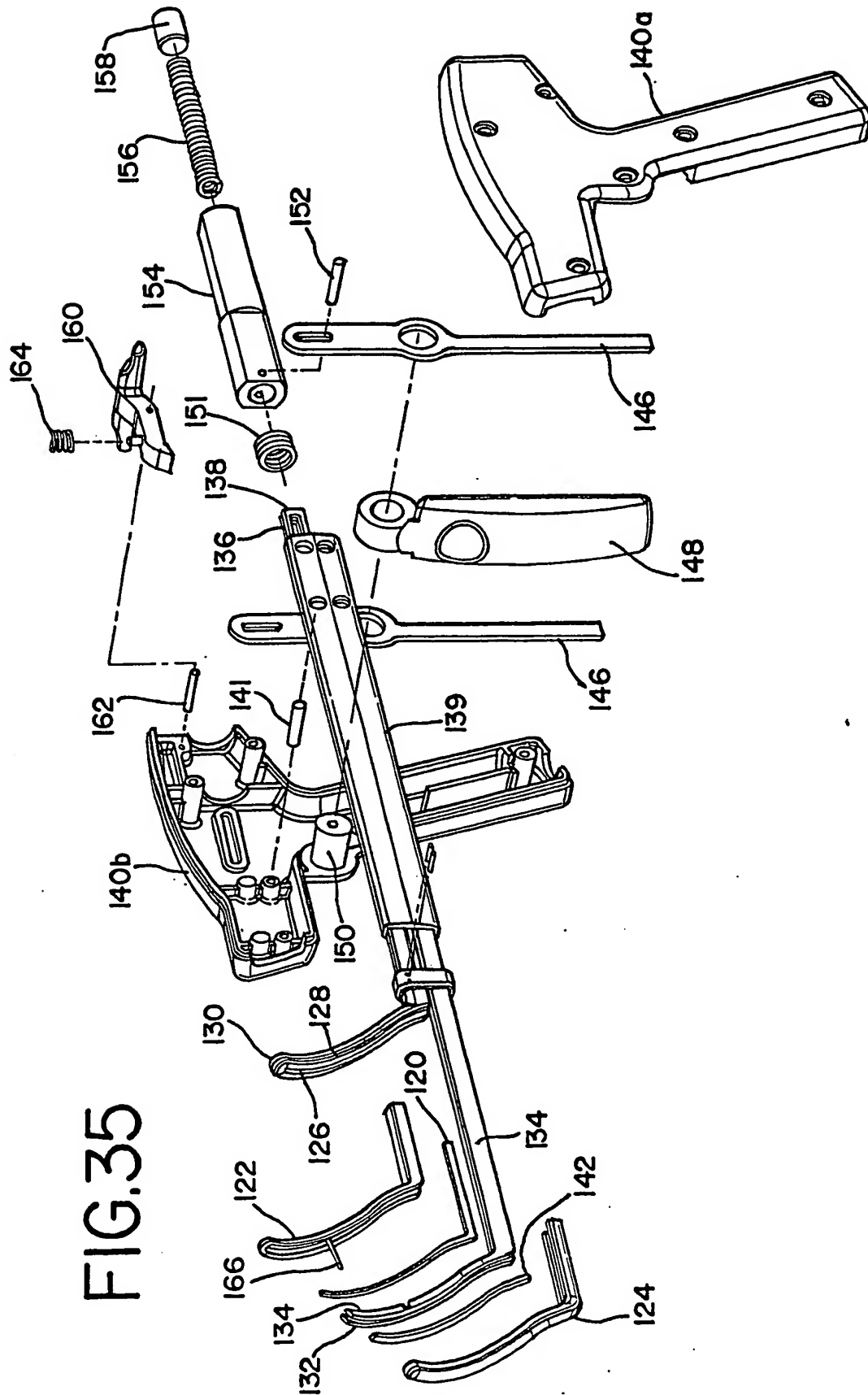


FIG.35



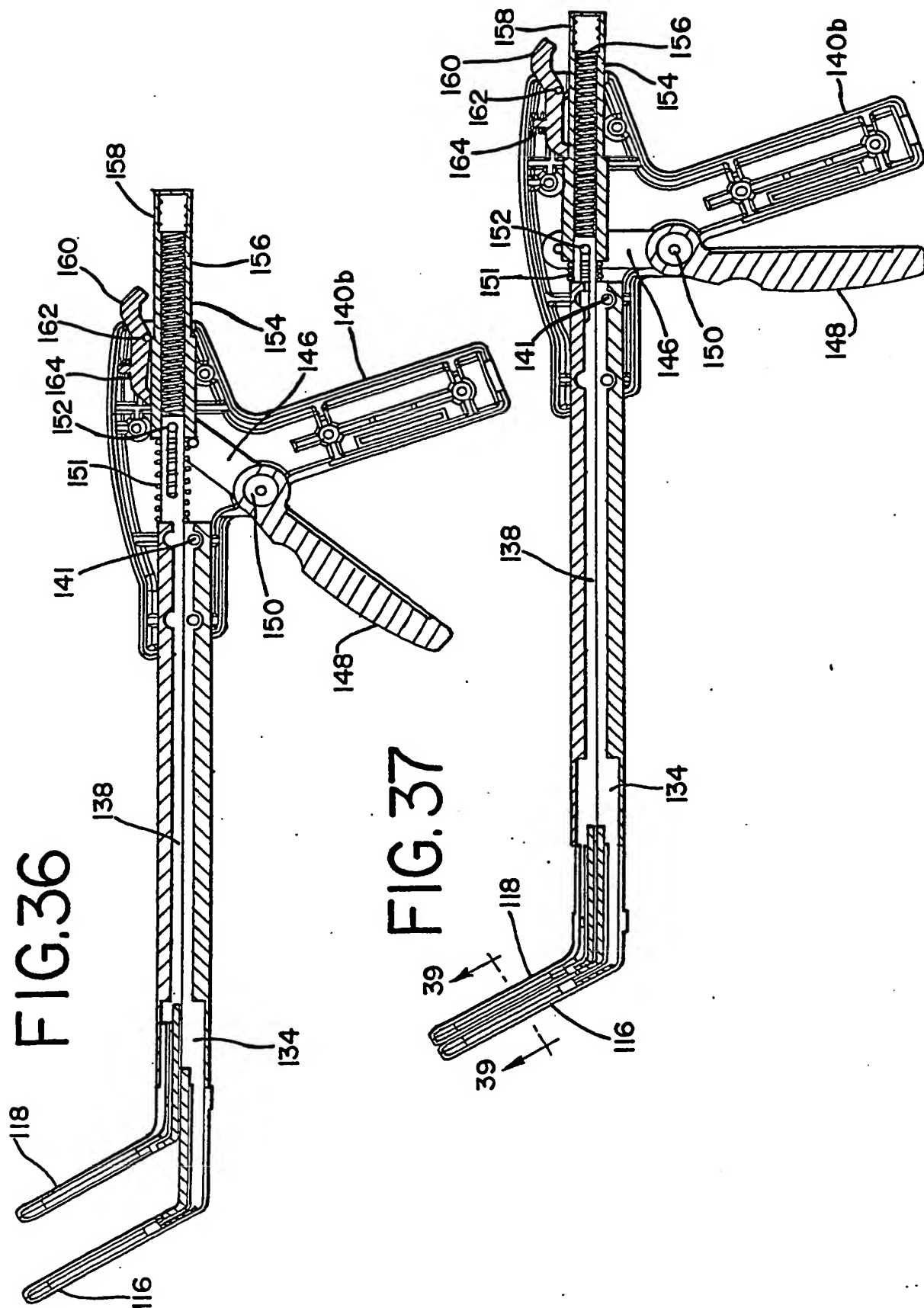


FIG.38

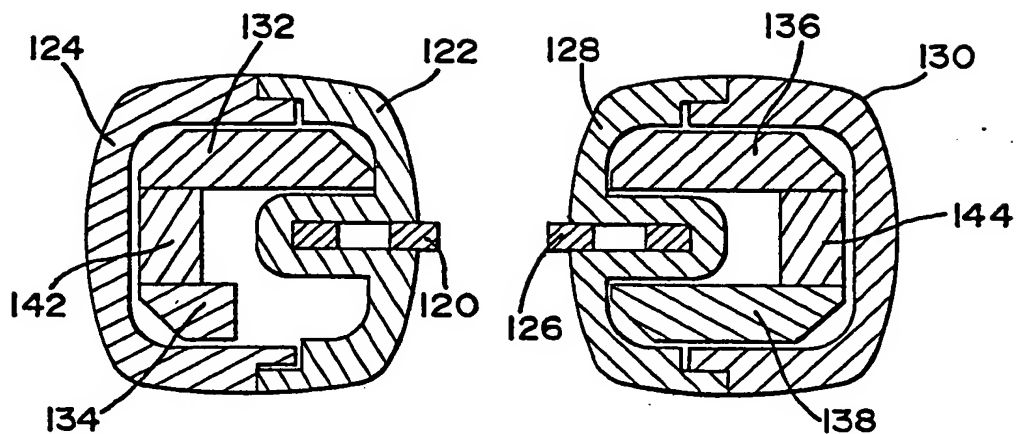


FIG.39

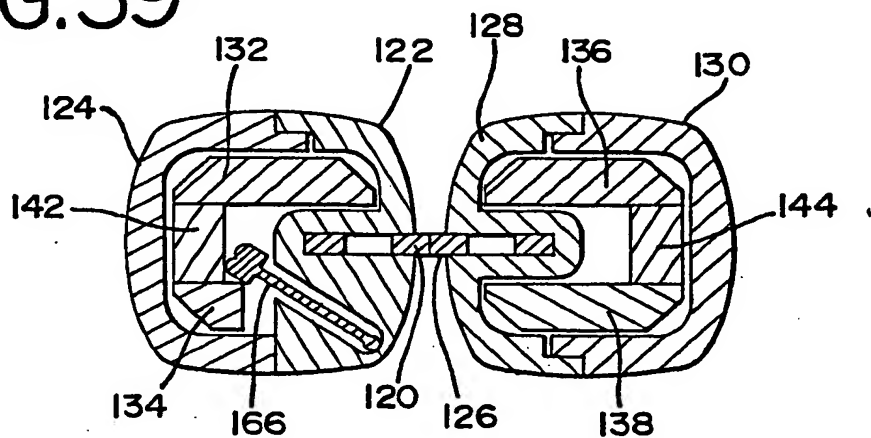


FIG.40

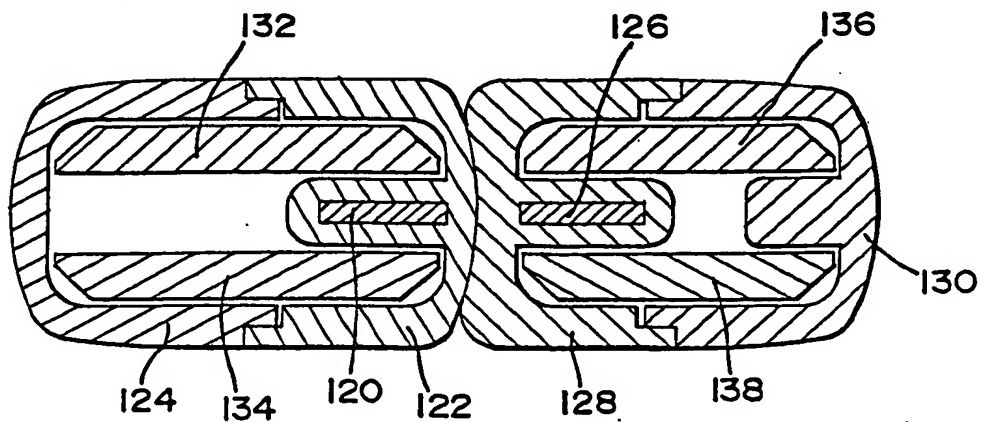


FIG.41

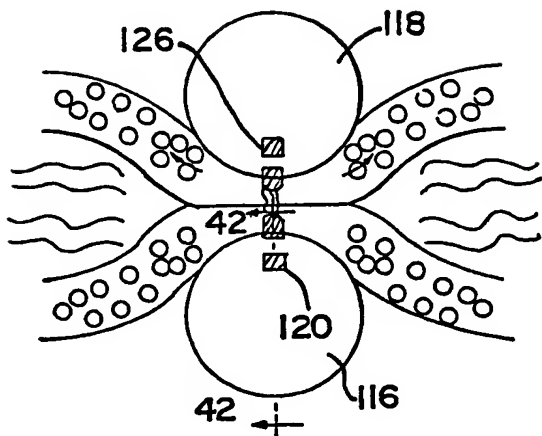


FIG.42

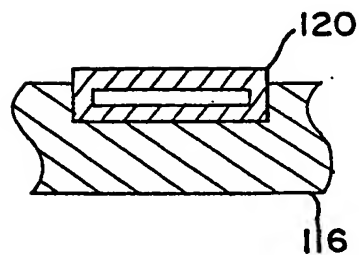


FIG.43

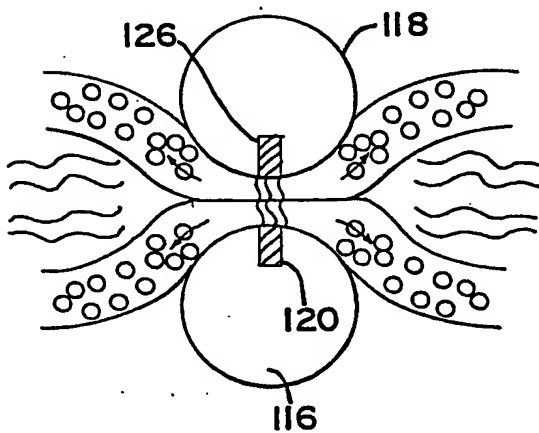


FIG.44

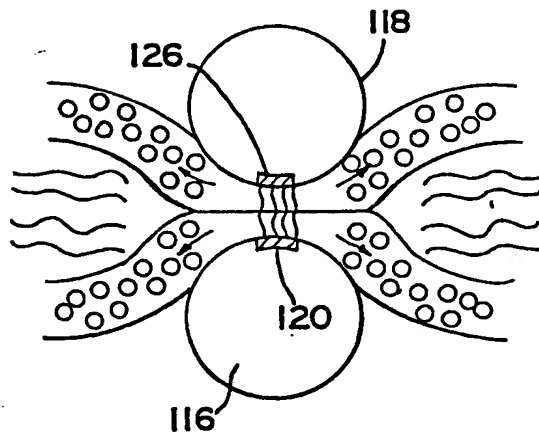


FIG.45

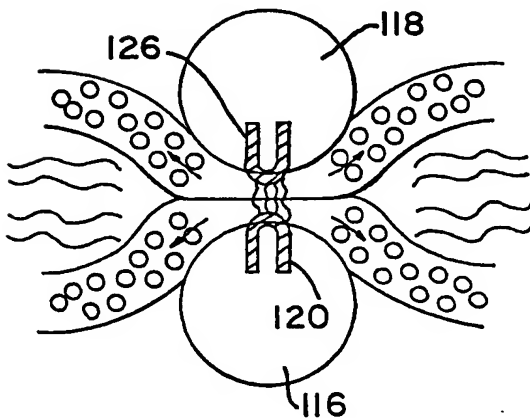


FIG.46

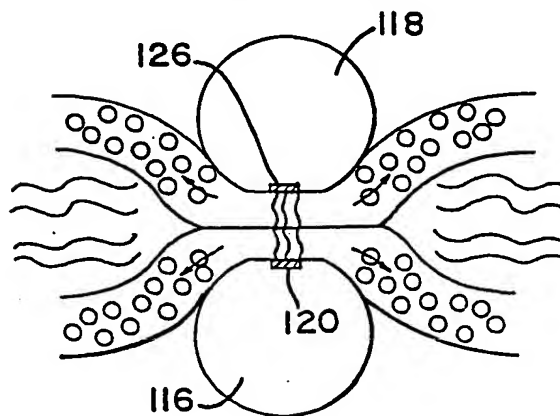


FIG.47

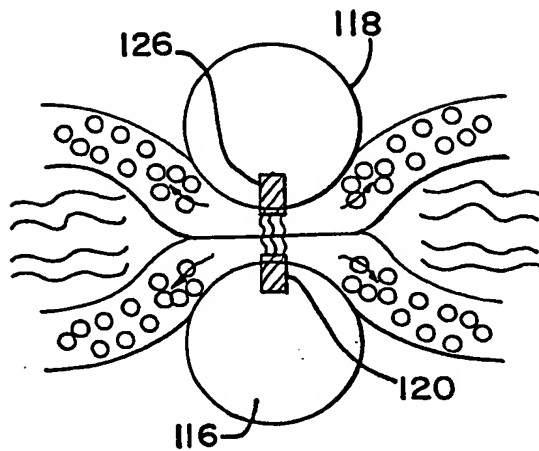


FIG.48

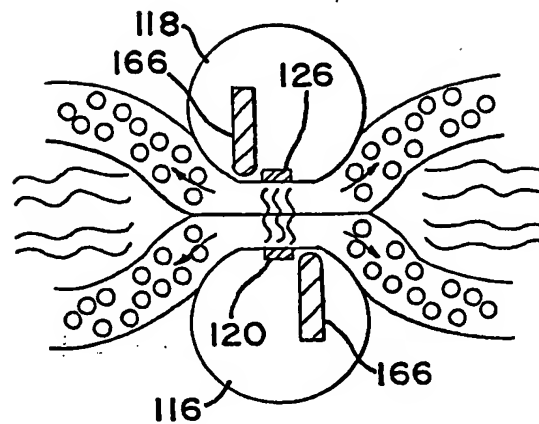


FIG.49

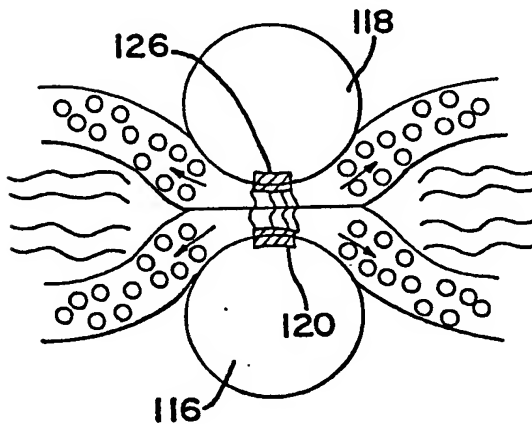


FIG.50

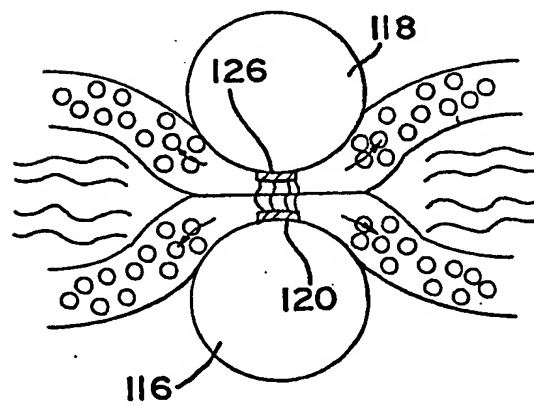


FIG.51

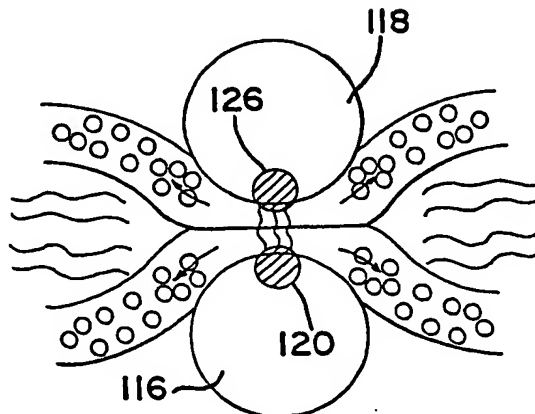


FIG.52A

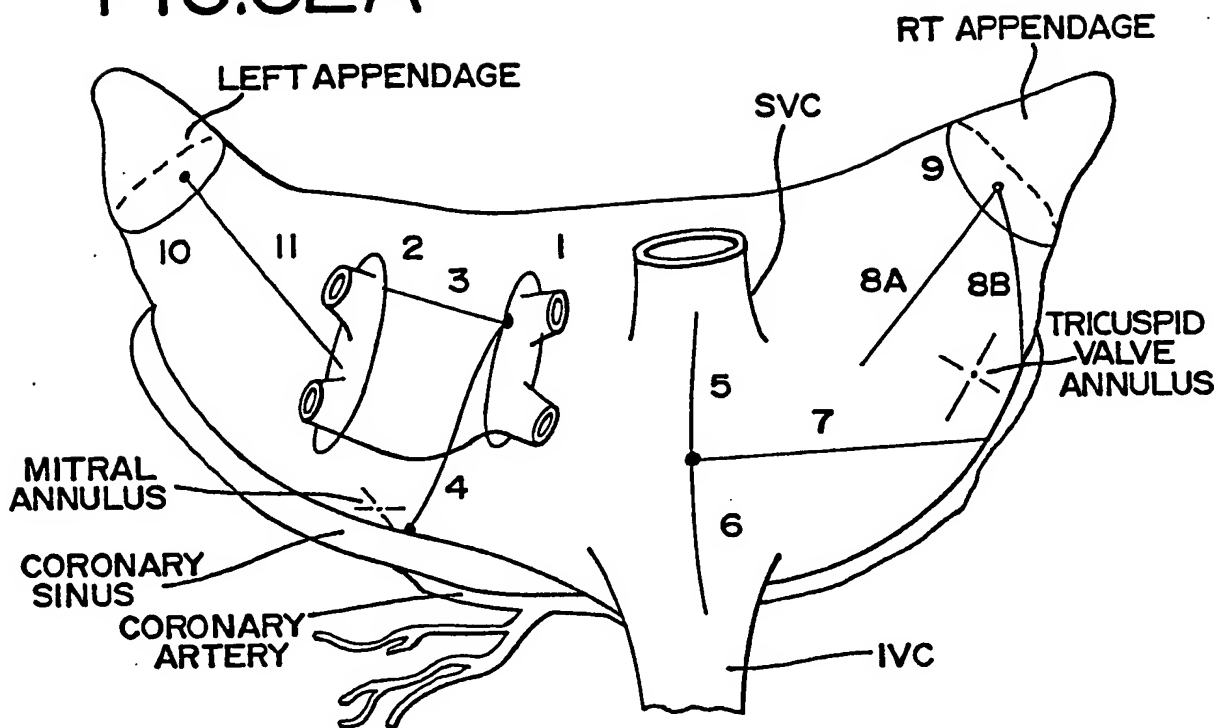


FIG.52B

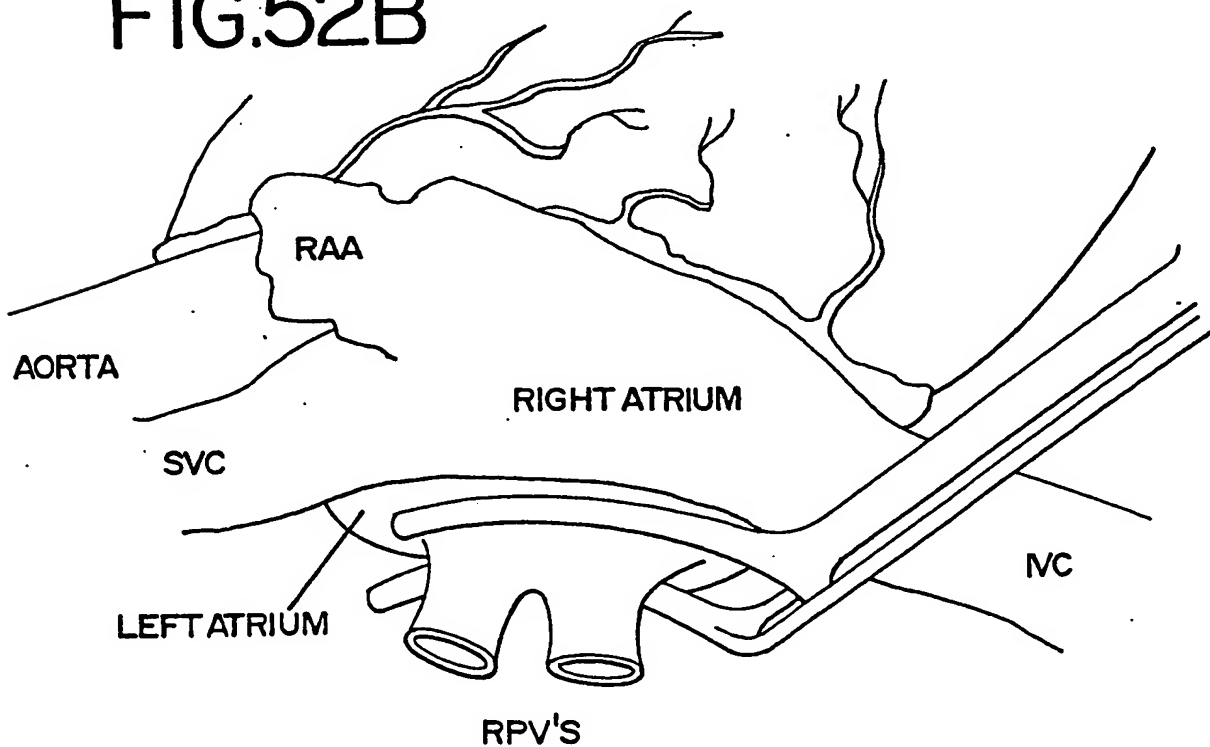


FIG.52C

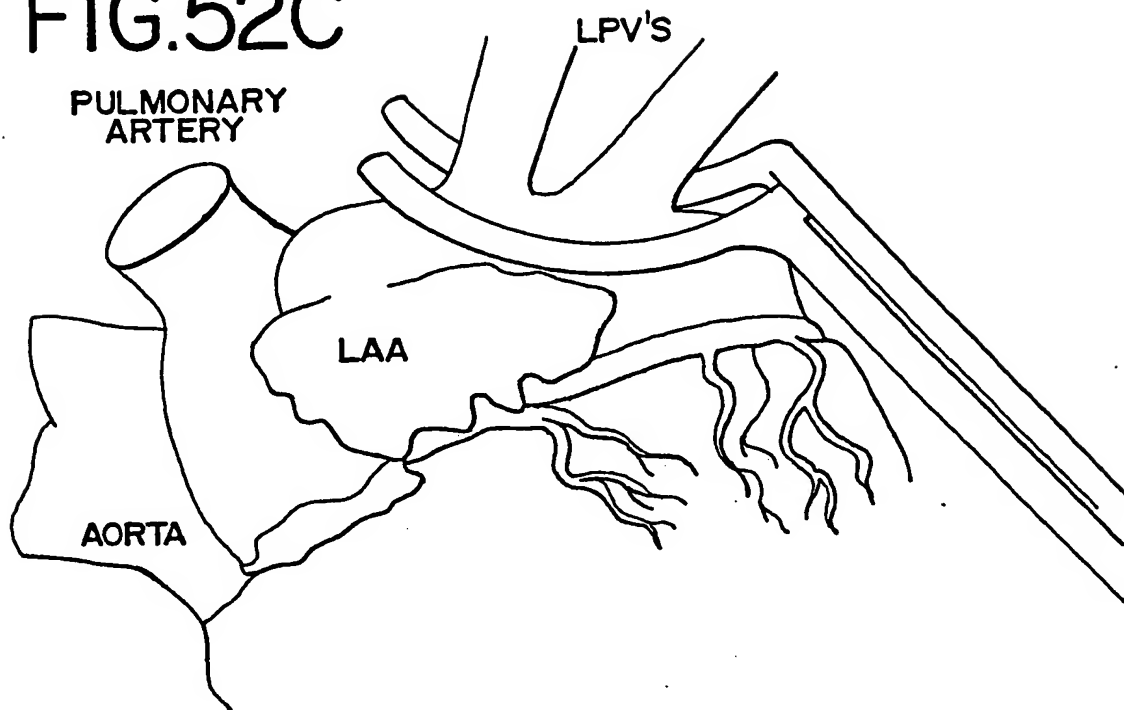


FIG.52D

HEART LIFTED

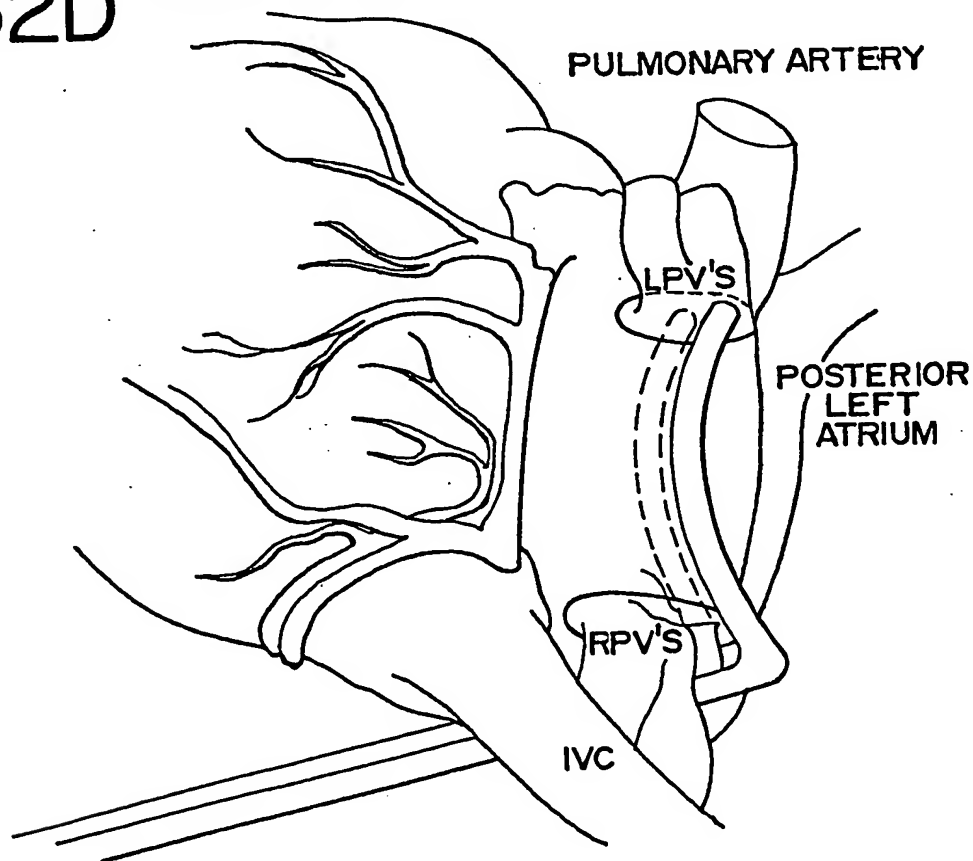


FIG.52E

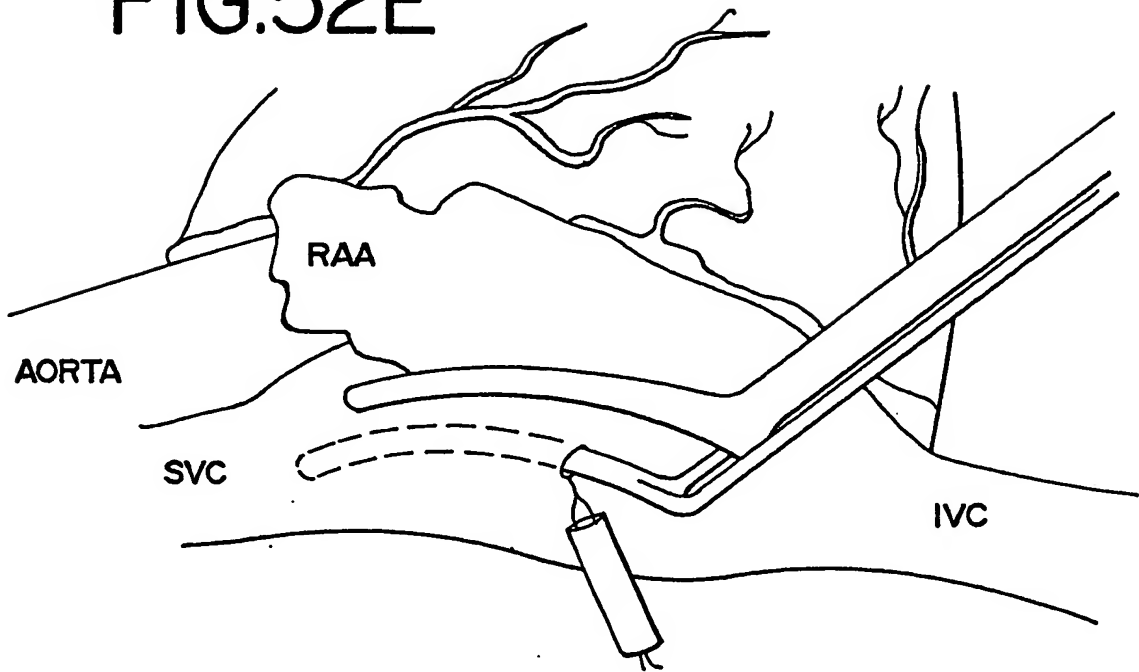
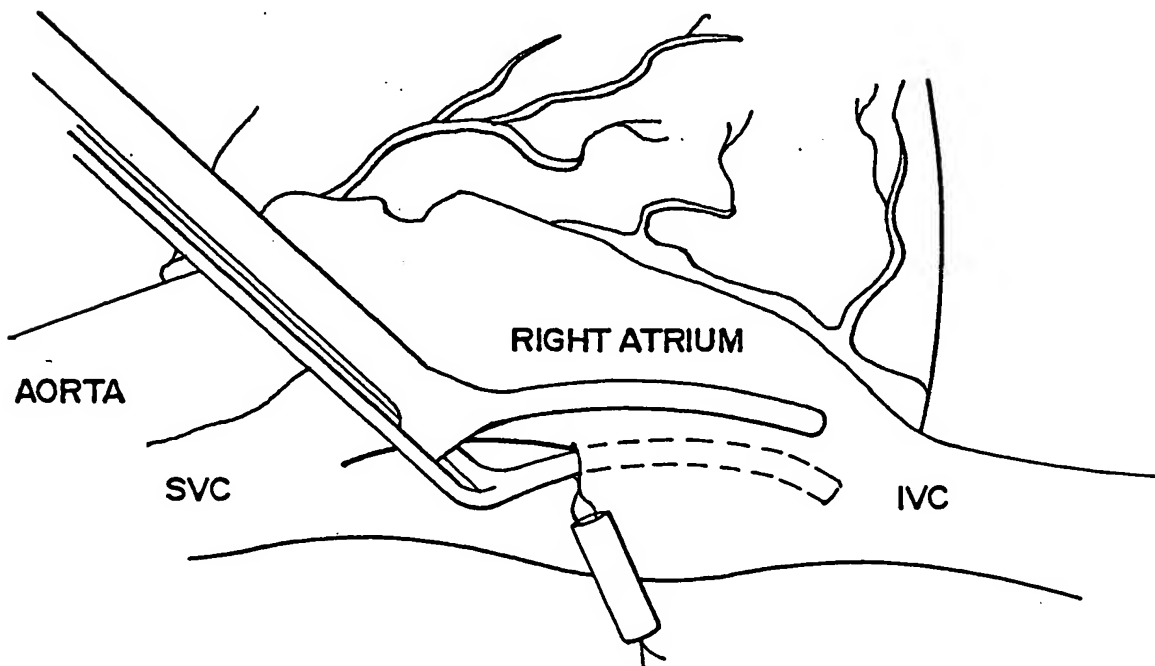


FIG.52F



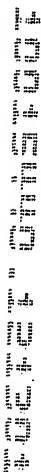
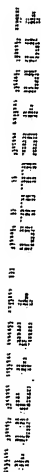
[illegible][illegible]

FIG.52I

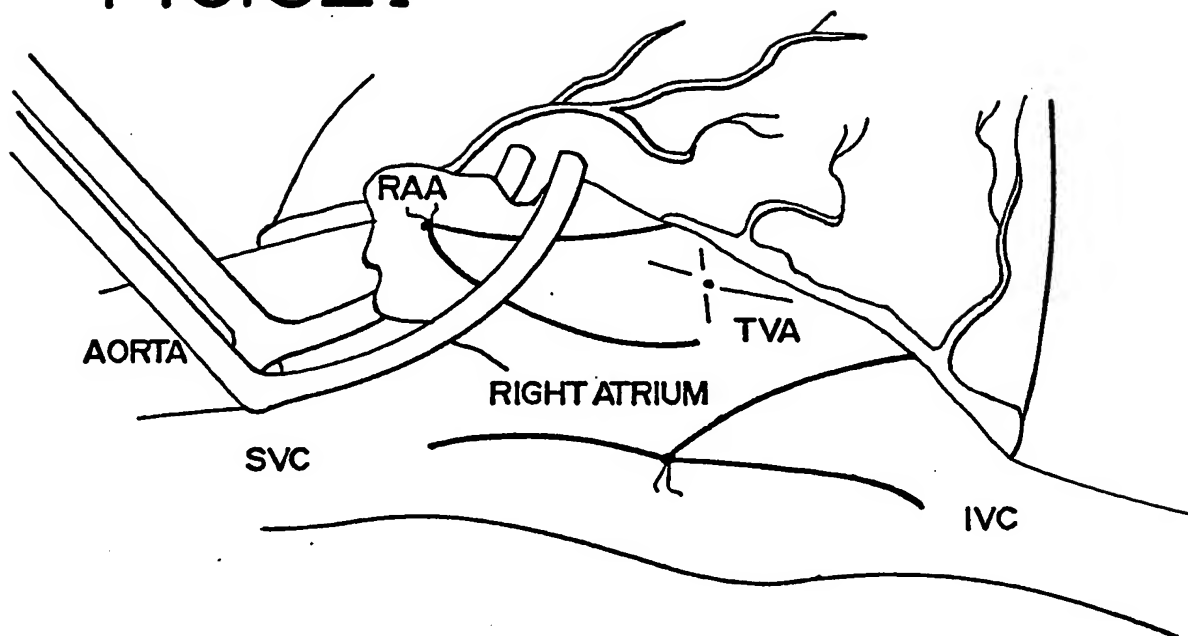


FIG.52J

PULMONARY ARTERY





$\frac{m}{n}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{9}$	$\frac{1}{10}$	$\frac{1}{11}$	$\frac{1}{12}$	$\frac{1}{13}$	$\frac{1}{14}$	$\frac{1}{15}$	$\frac{1}{16}$	$\frac{1}{17}$	$\frac{1}{18}$	$\frac{1}{19}$	$\frac{1}{20}$	$\frac{1}{21}$	$\frac{1}{22}$	$\frac{1}{23}$	$\frac{1}{24}$	$\frac{1}{25}$	$\frac{1}{26}$	$\frac{1}{27}$	$\frac{1}{28}$	$\frac{1}{29}$	$\frac{1}{30}$	$\frac{1}{31}$	$\frac{1}{32}$	$\frac{1}{33}$	$\frac{1}{34}$	$\frac{1}{35}$	$\frac{1}{36}$	$\frac{1}{37}$	$\frac{1}{38}$	$\frac{1}{39}$	$\frac{1}{40}$	$\frac{1}{41}$	$\frac{1}{42}$	$\frac{1}{43}$	$\frac{1}{44}$	$\frac{1}{45}$	$\frac{1}{46}$	$\frac{1}{47}$	$\frac{1}{48}$	$\frac{1}{49}$	$\frac{1}{50}$	$\frac{1}{51}$	$\frac{1}{52}$	$\frac{1}{53}$	$\frac{1}{54}$	$\frac{1}{55}$	$\frac{1}{56}$	$\frac{1}{57}$	$\frac{1}{58}$	$\frac{1}{59}$	$\frac{1}{60}$	$\frac{1}{61}$	$\frac{1}{62}$	$\frac{1}{63}$	$\frac{1}{64}$	$\frac{1}{65}$	$\frac{1}{66}$	$\frac{1}{67}$	$\frac{1}{68}$	$\frac{1}{69}$	$\frac{1}{70}$	$\frac{1}{71}$	$\frac{1}{72}$	$\frac{1}{73}$	$\frac{1}{74}$	$\frac{1}{75}$	$\frac{1}{76}$	$\frac{1}{77}$	$\frac{1}{78}$	$\frac{1}{79}$	$\frac{1}{80}$	$\frac{1}{81}$	$\frac{1}{82}$	$\frac{1}{83}$	$\frac{1}{84}$	$\frac{1}{85}$	$\frac{1}{86}$	$\frac{1}{87}$	$\frac{1}{88}$	$\frac{1}{89}$	$\frac{1}{90}$	$\frac{1}{91}$	$\frac{1}{92}$	$\frac{1}{93}$	$\frac{1}{94}$	$\frac{1}{95}$	$\frac{1}{96}$	$\frac{1}{97}$	$\frac{1}{98}$	$\frac{1}{99}$	$\frac{1}{100}$
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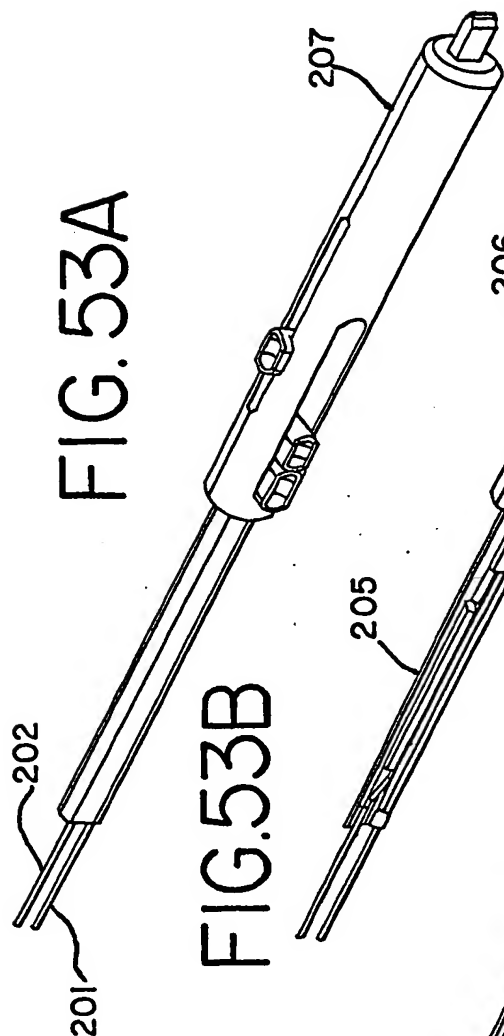


FIG. 53A

FIG. 53B

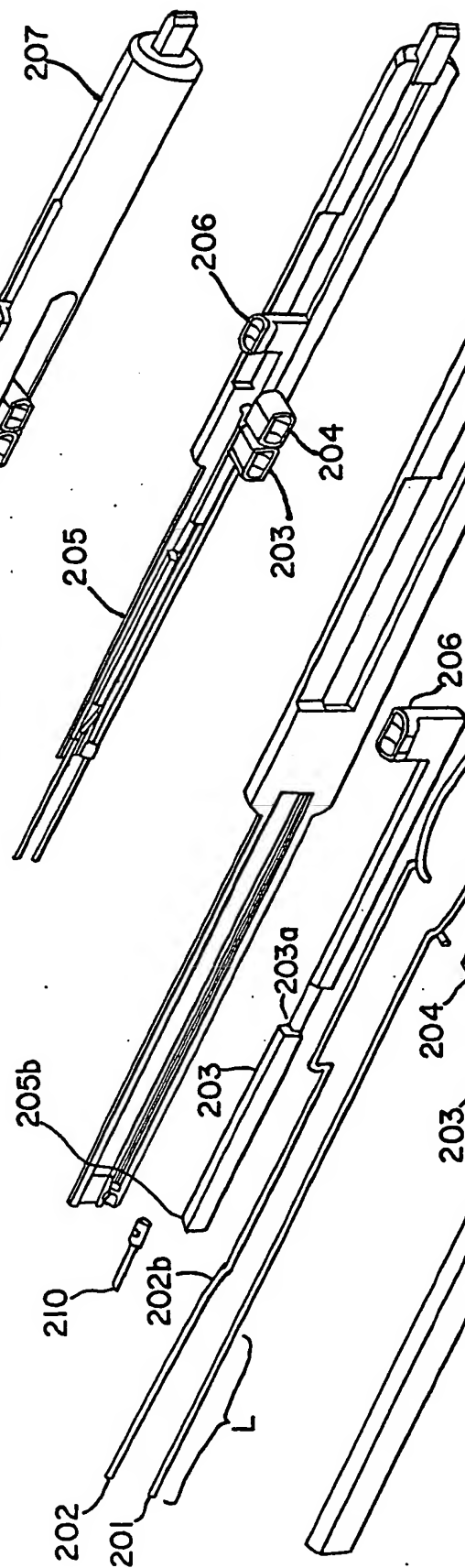


FIG. 54

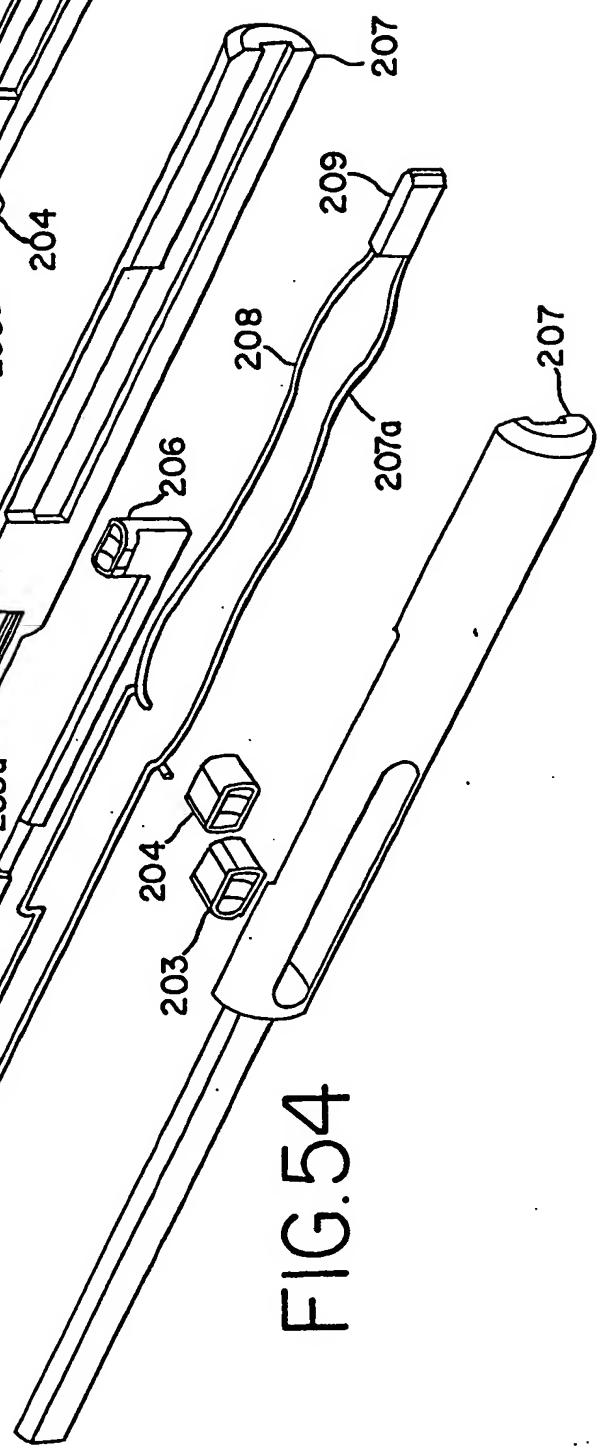


FIG. 55

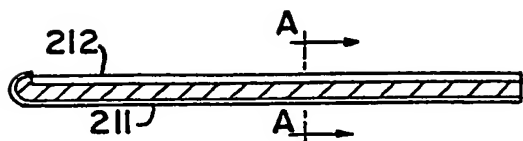


FIG. 56

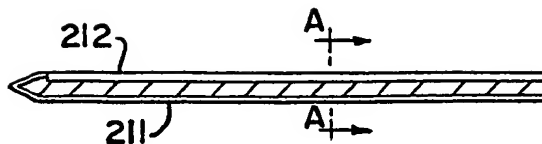


FIG. 57

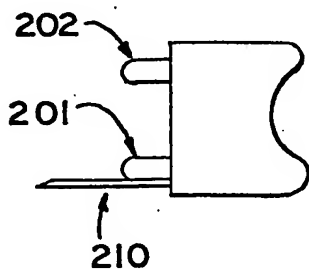


FIG. 58A

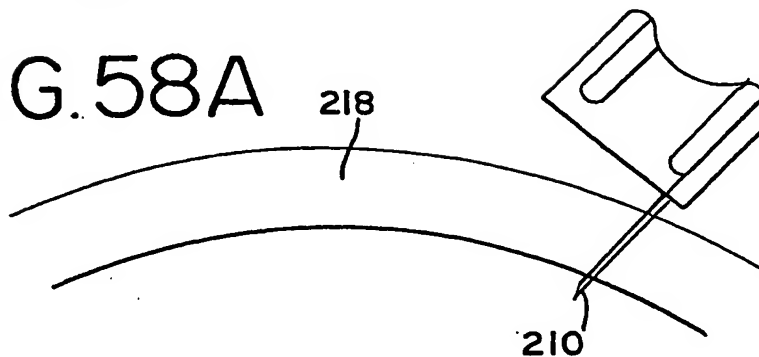


FIG. 58B

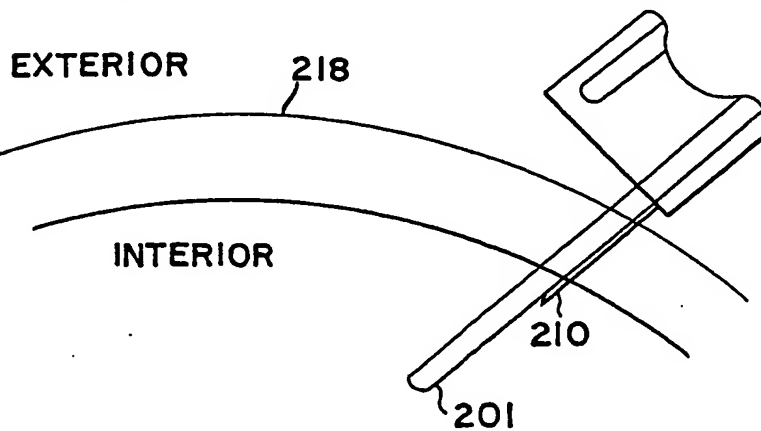


FIG. 58C

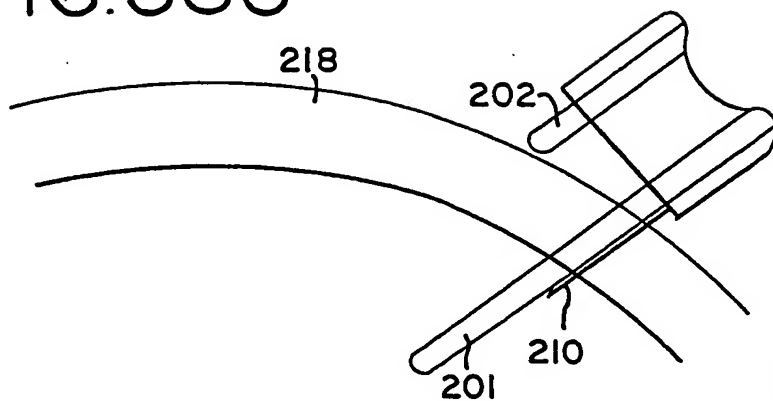


FIG. 58D

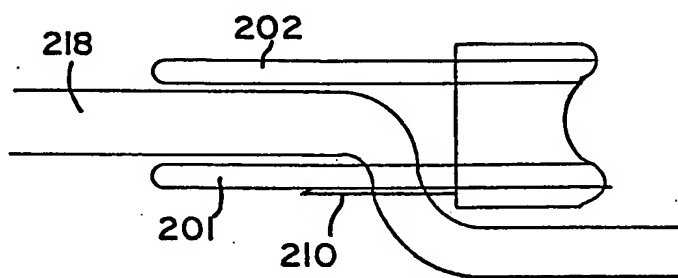


FIG. 58E

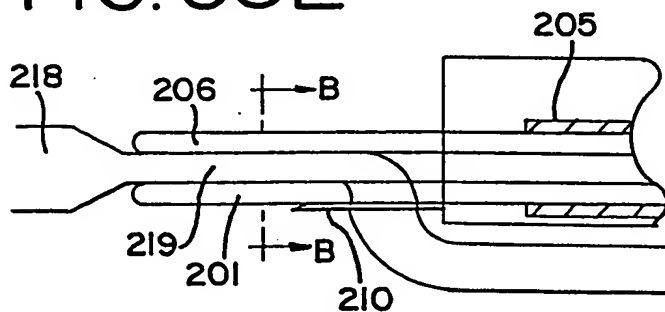


FIG. 58F

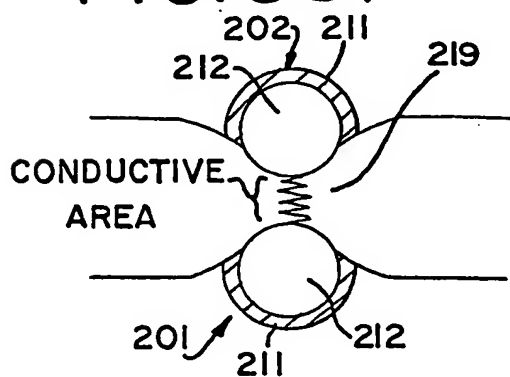


FIG. 58G

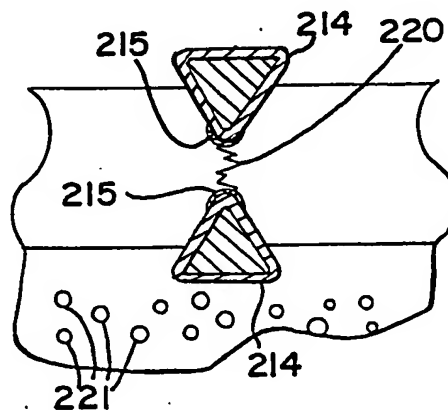


FIG. 59

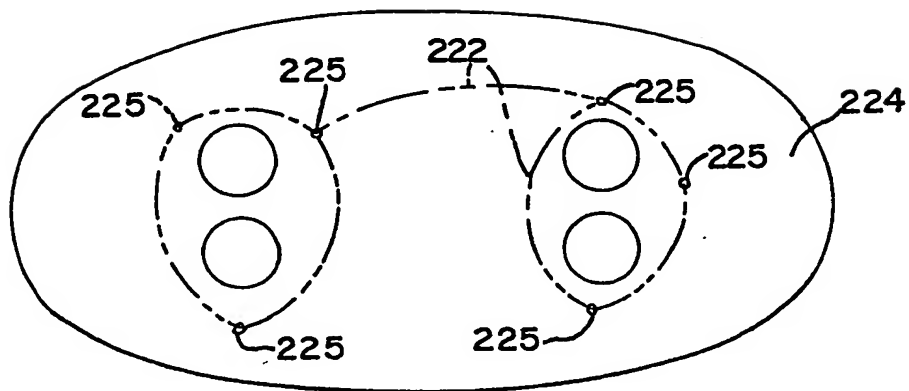


FIG. 60A

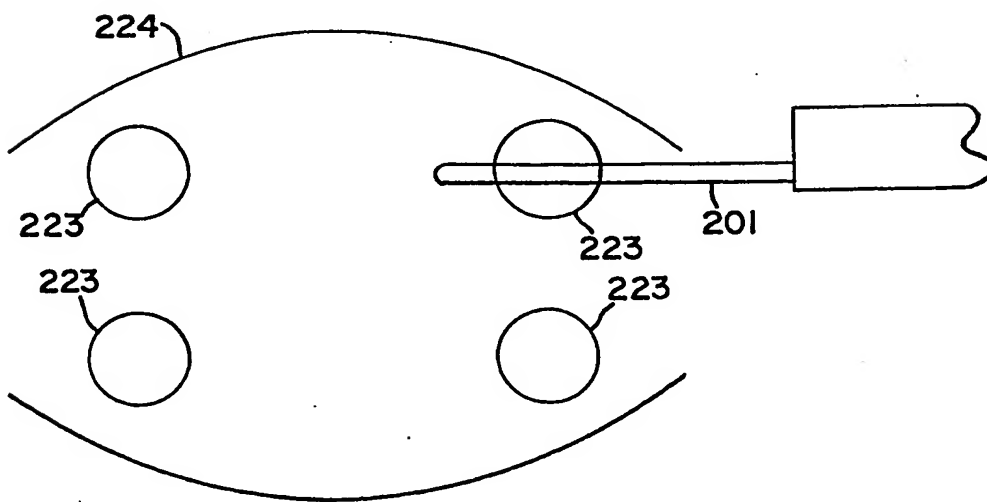


FIG. 60B

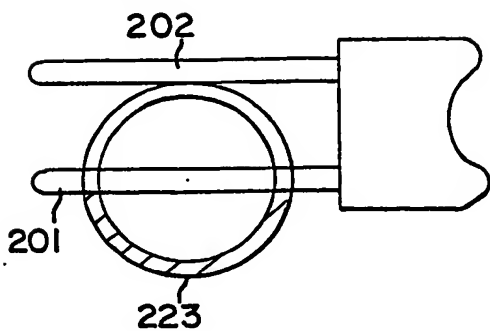


FIG. 60C

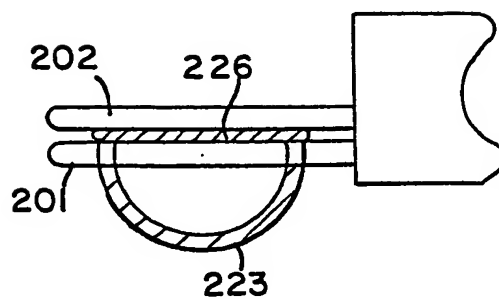


FIG. 60D

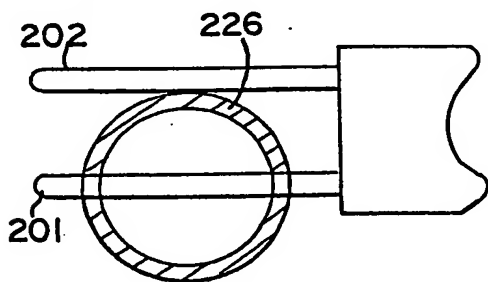


FIG. 60E

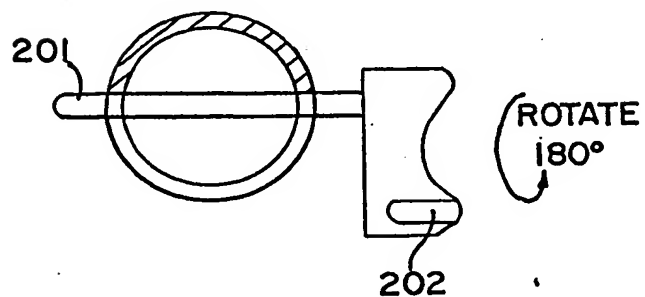


FIG. 60F

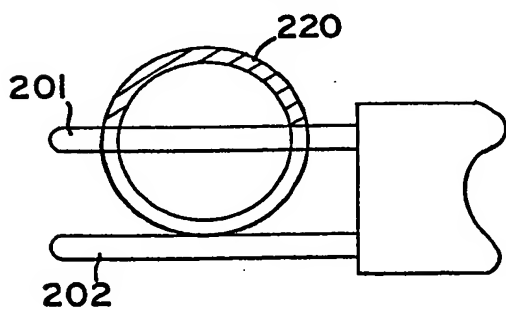


FIG. 60G

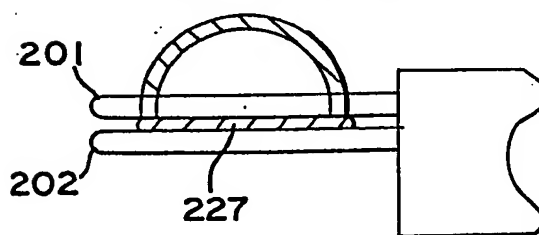


FIG. 60H

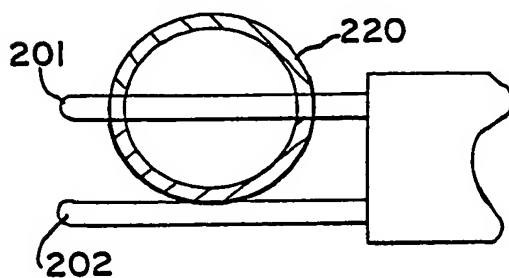
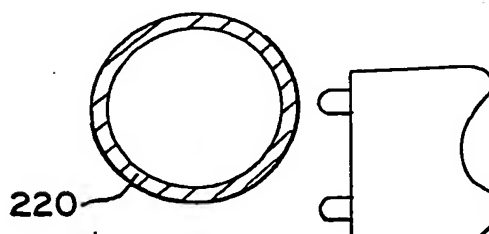
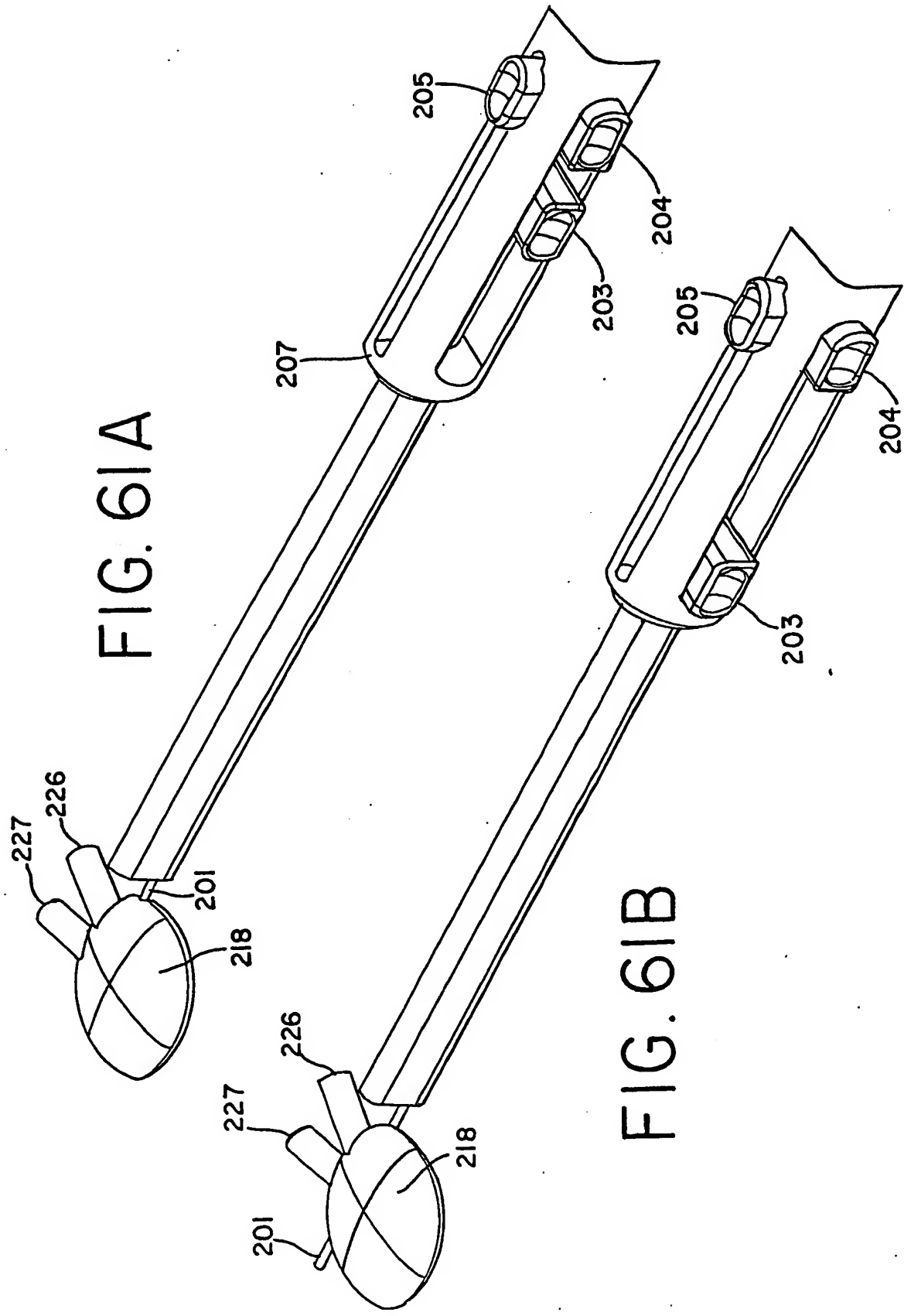


FIG. 60I





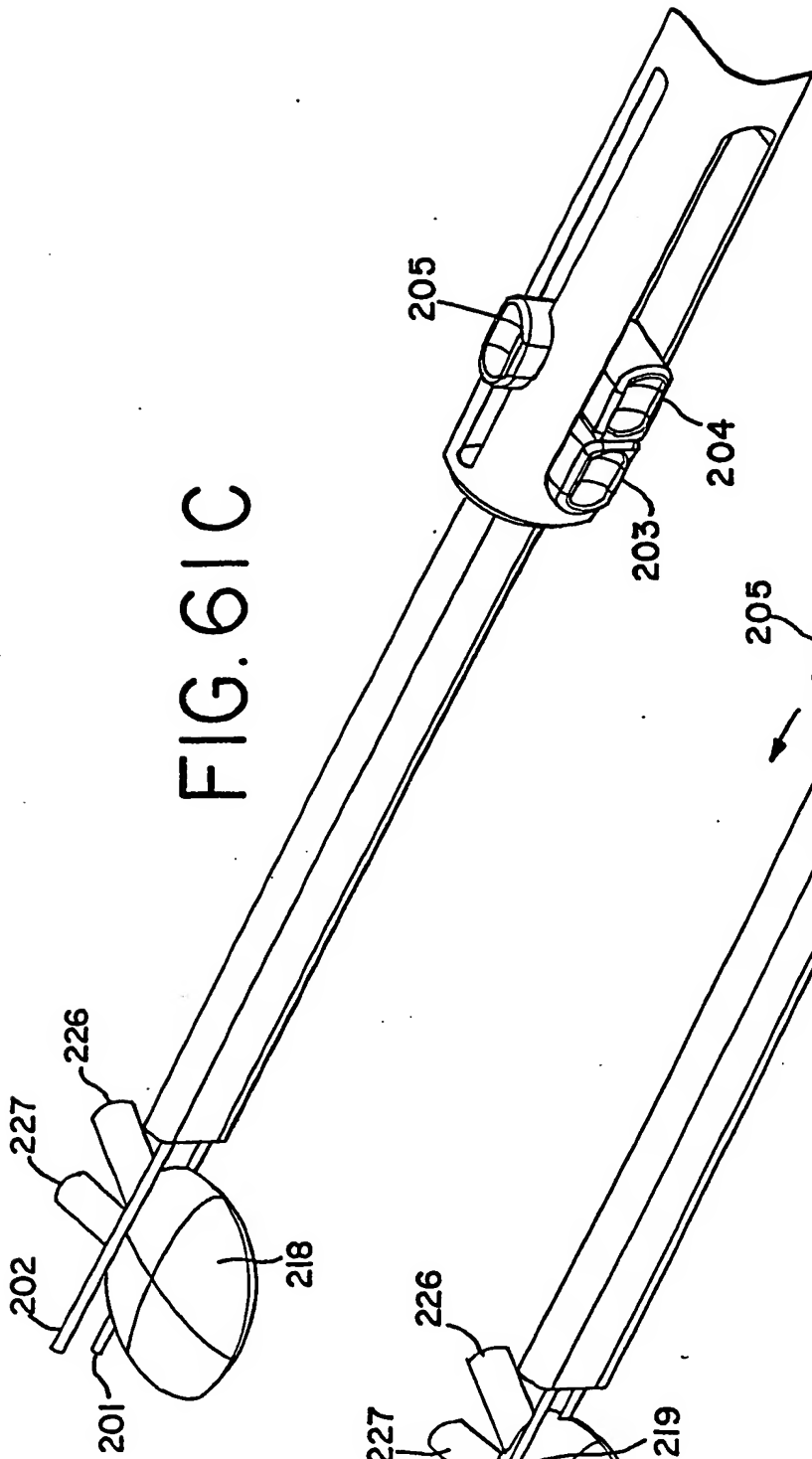


FIG. 61C

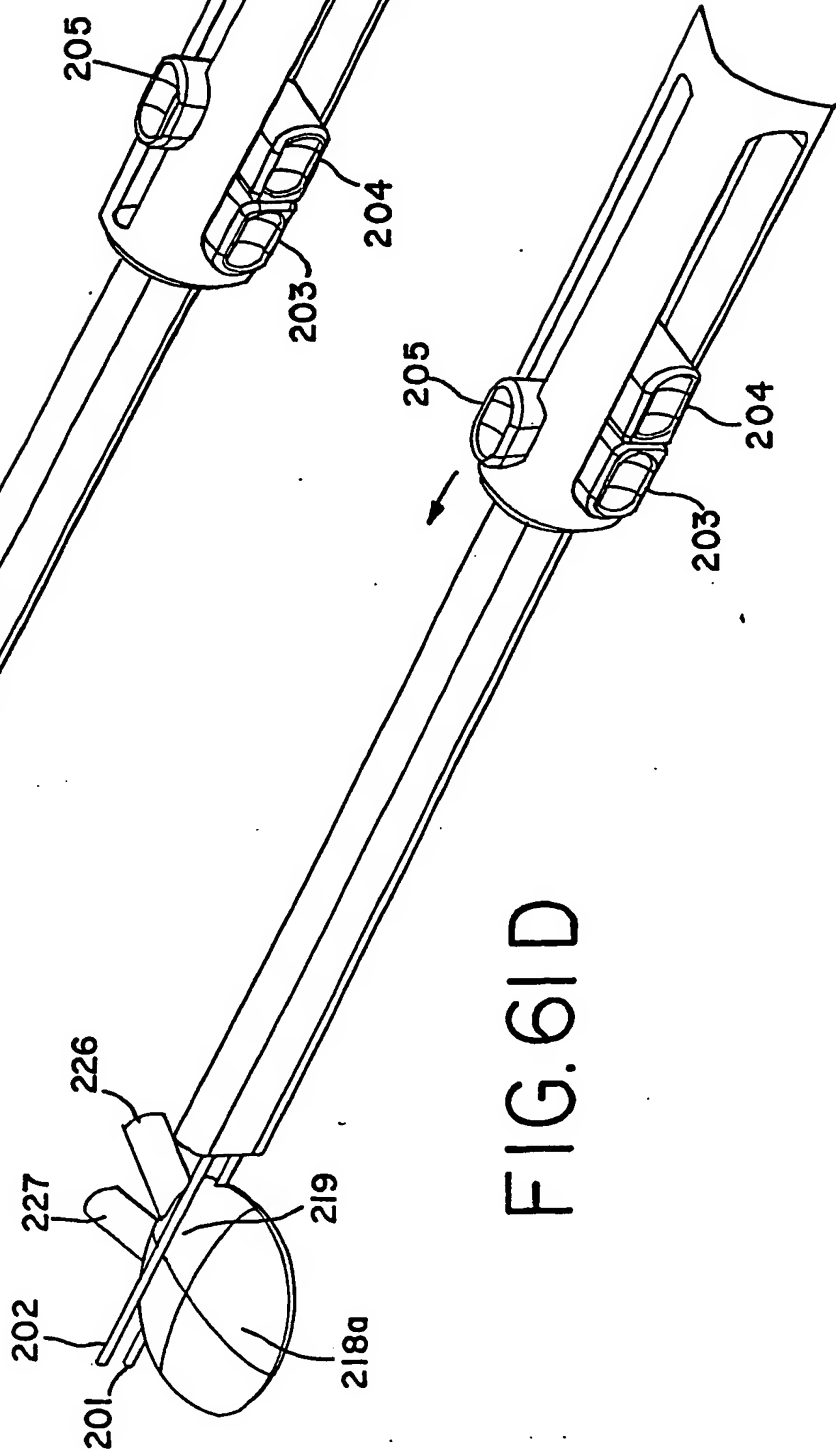
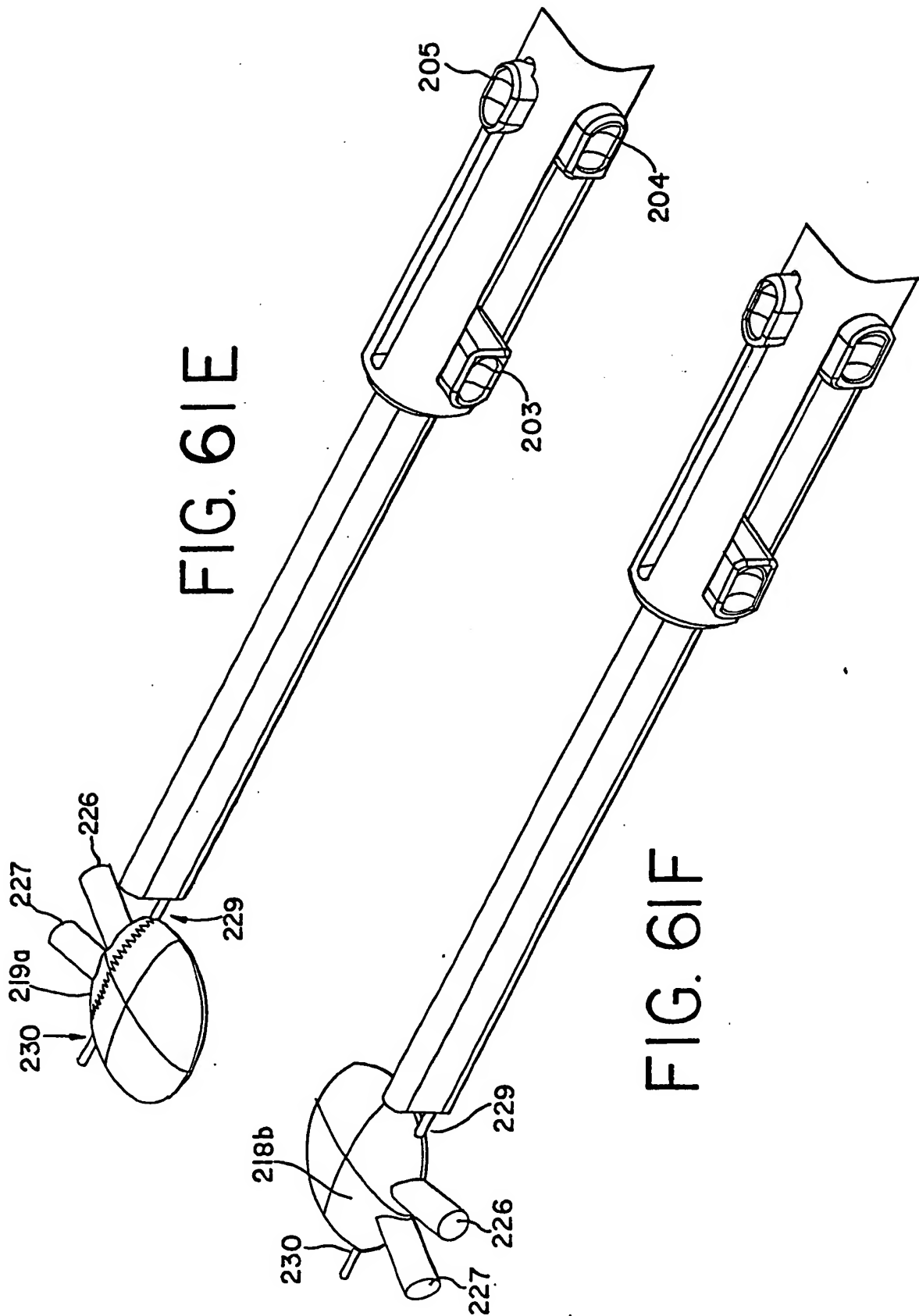
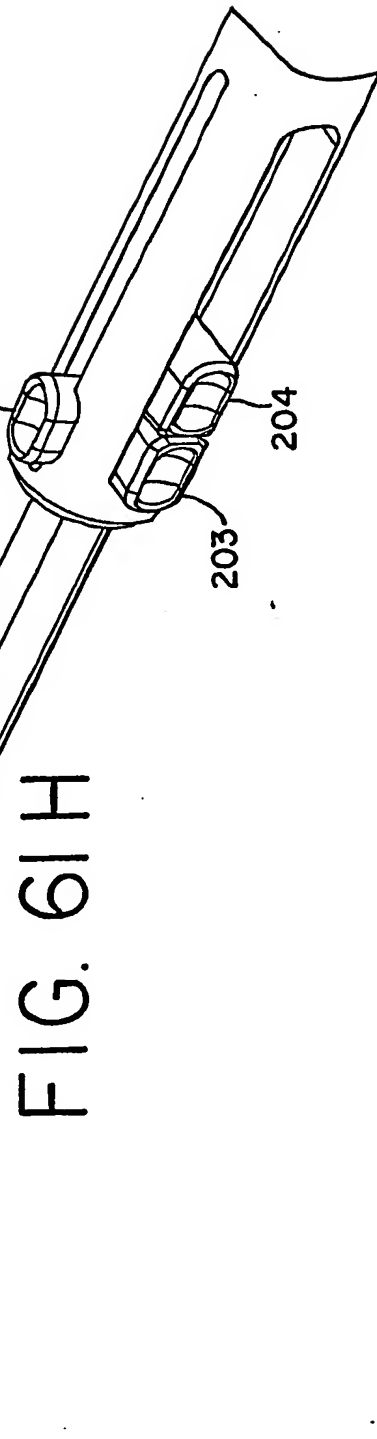
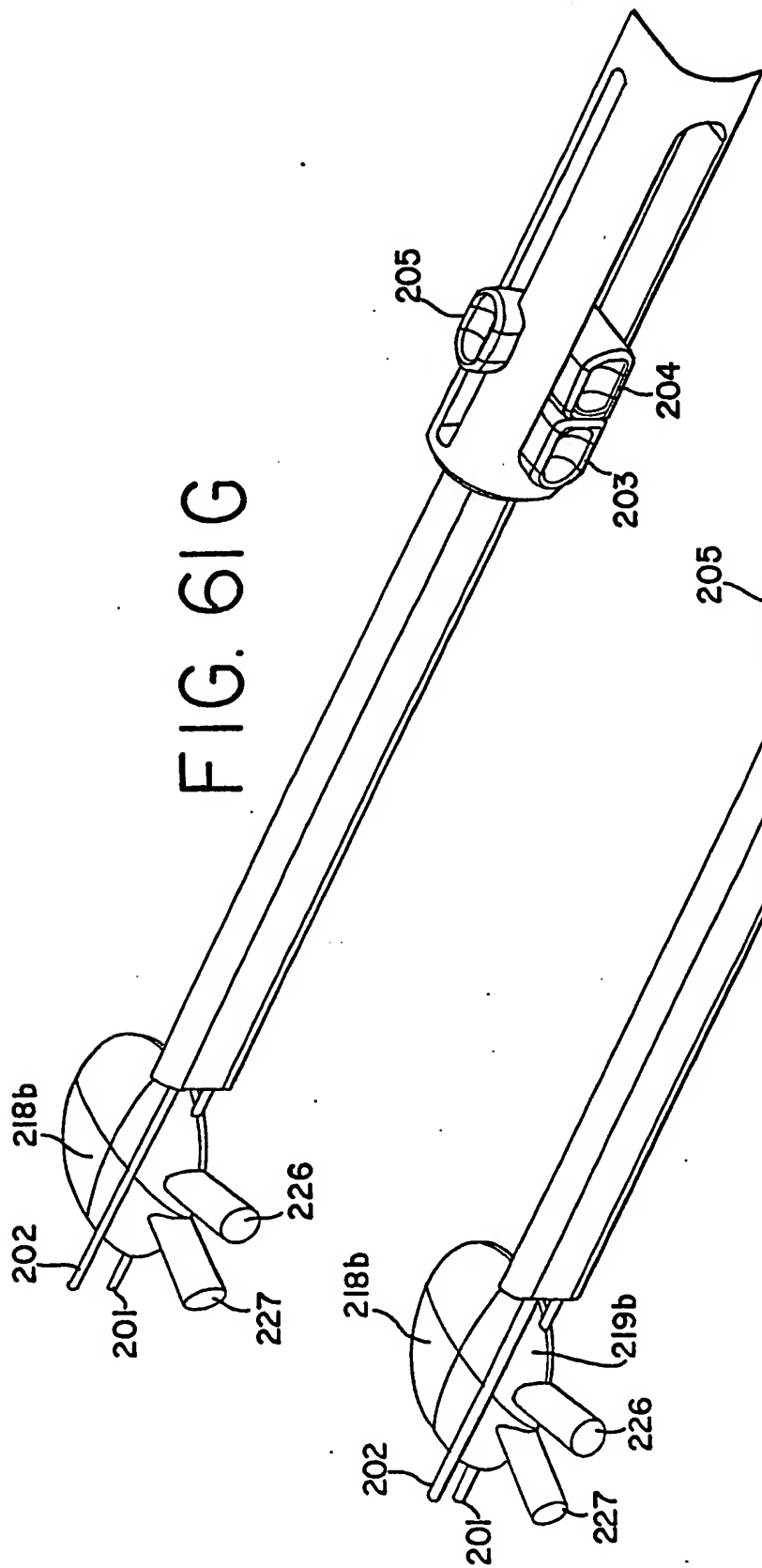


FIG. 61D





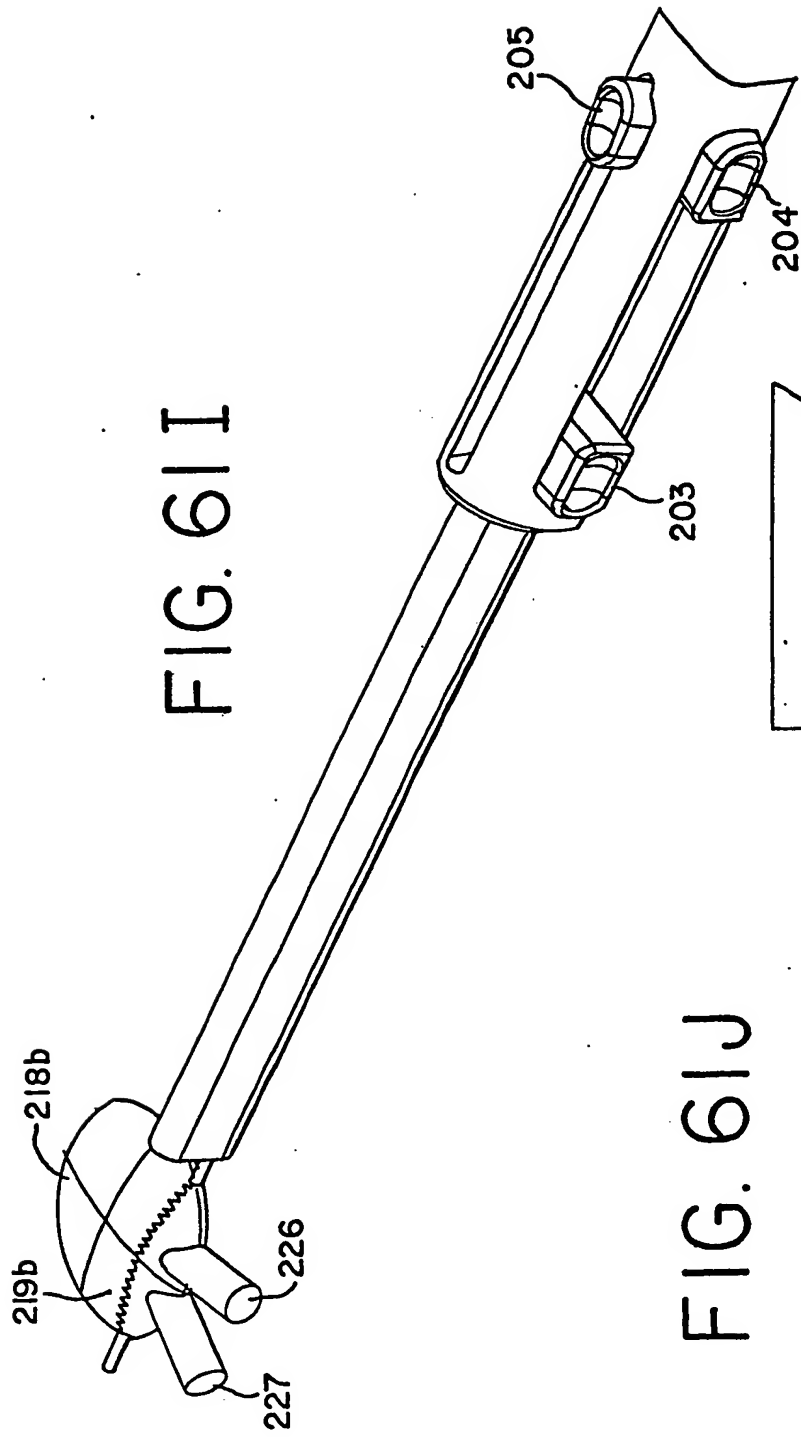


FIG. 6I

FIG. 6I

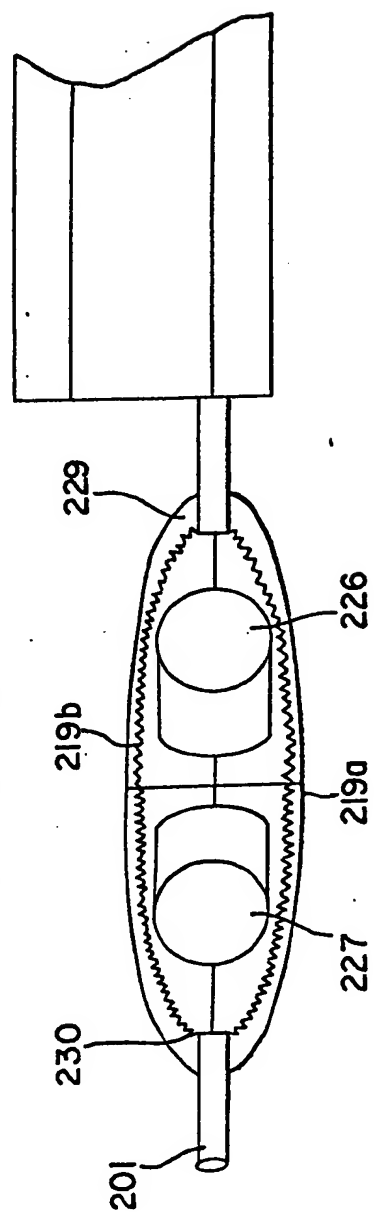


FIG. 6I

FIG.62A

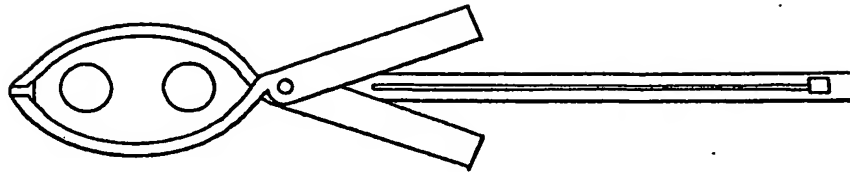


FIG.62B

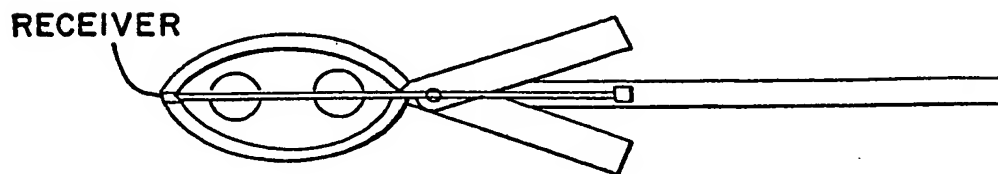


FIG.62C

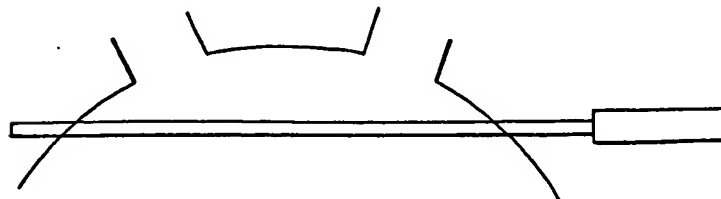


FIG. 62D

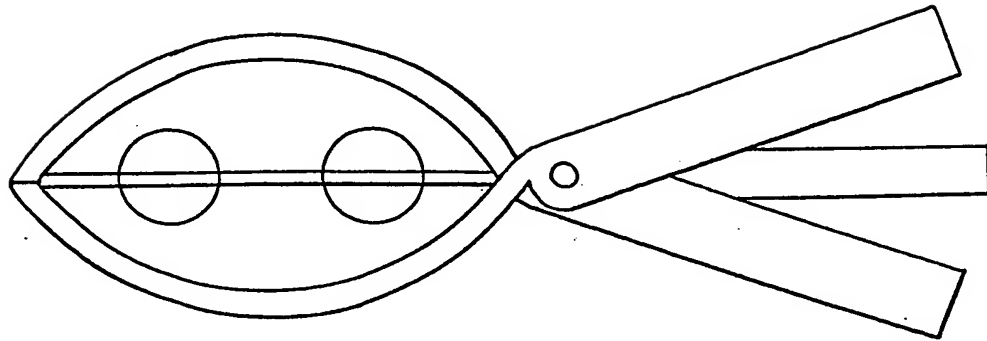


FIG. 62E

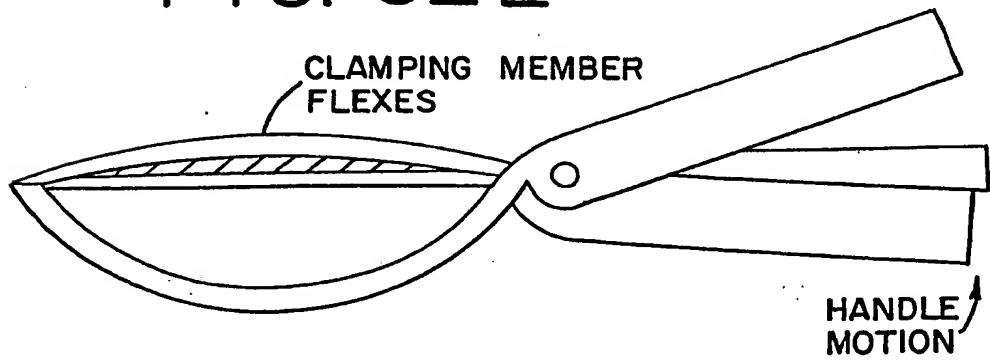


FIG. 62F

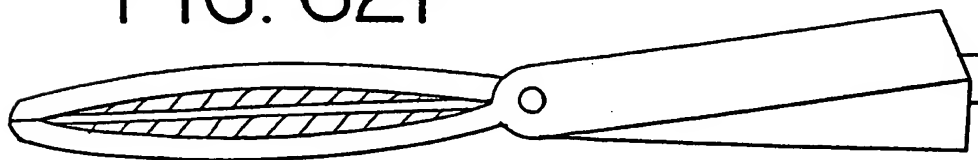


FIG. 62G

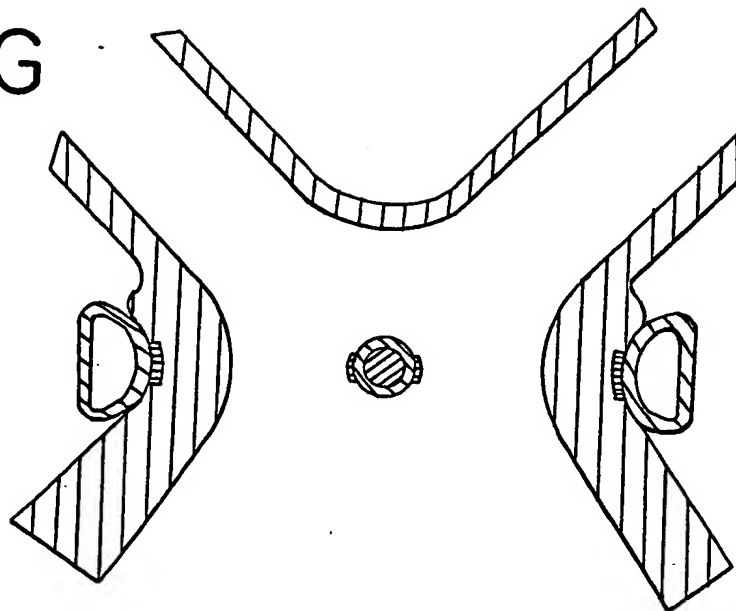


FIG. 62H

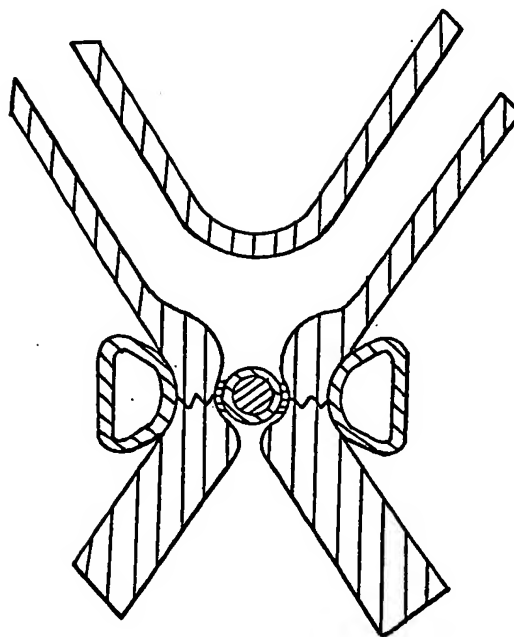
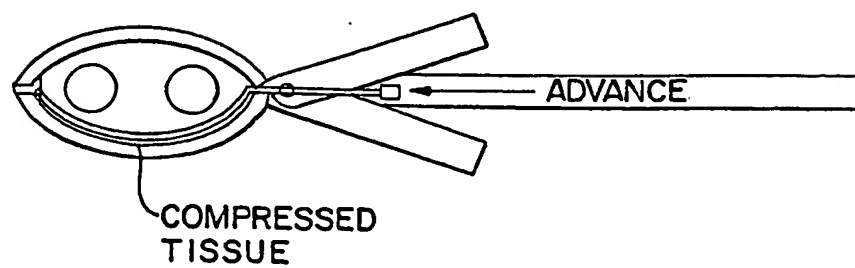


FIG. 62I



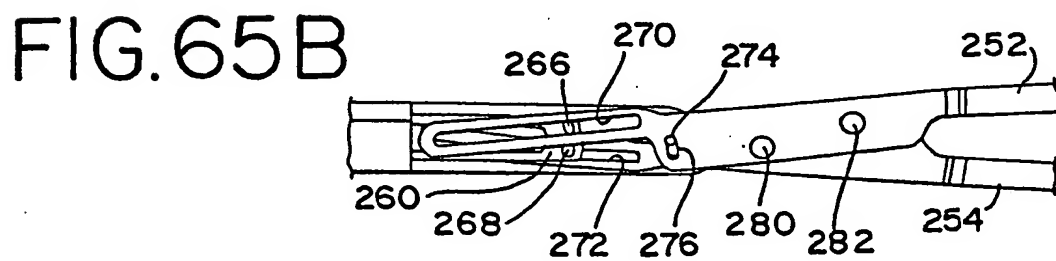
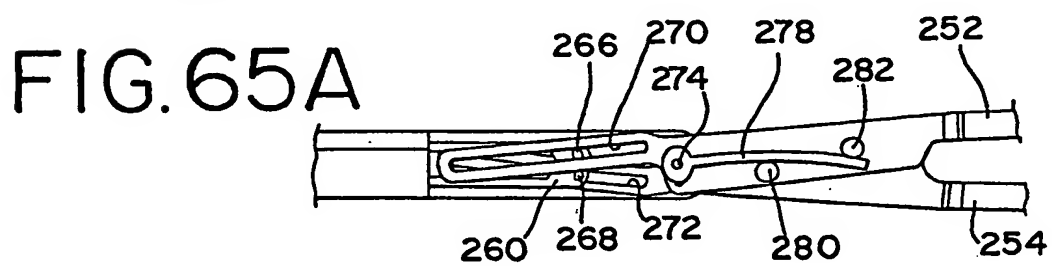
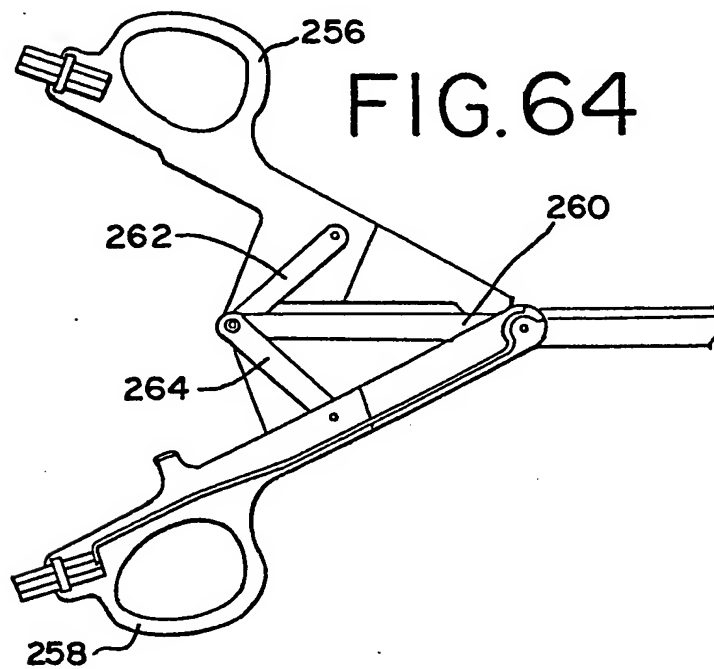
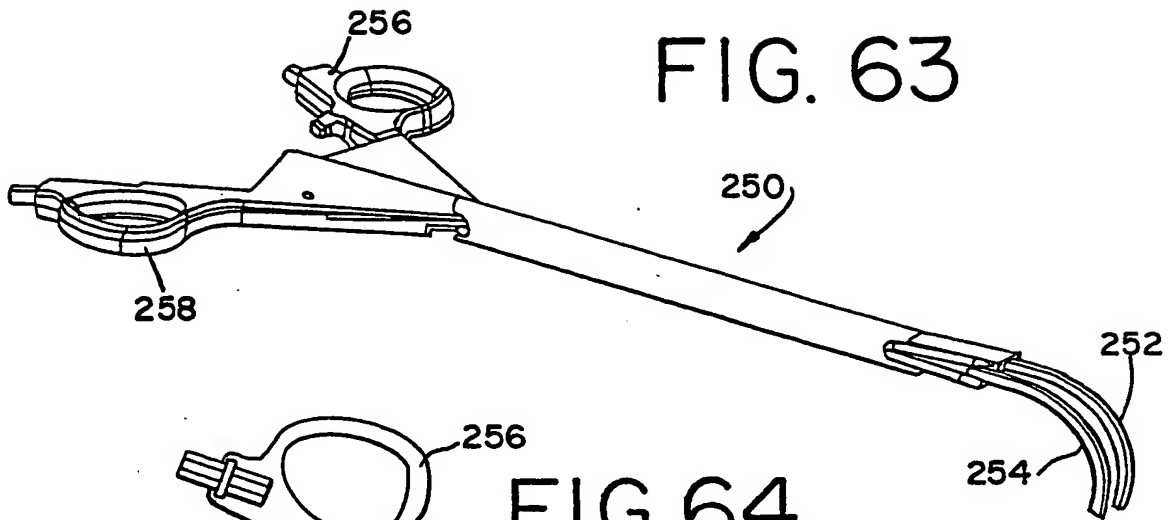


FIG. 66

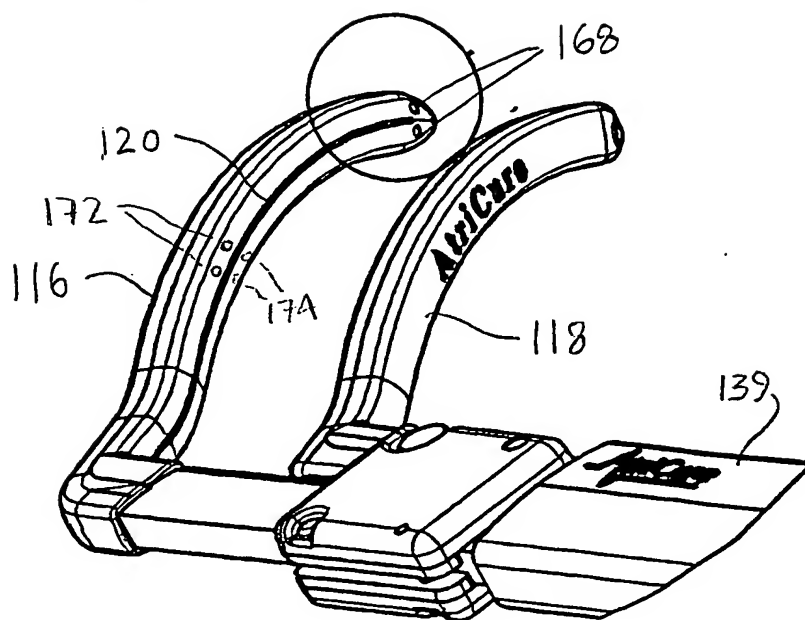
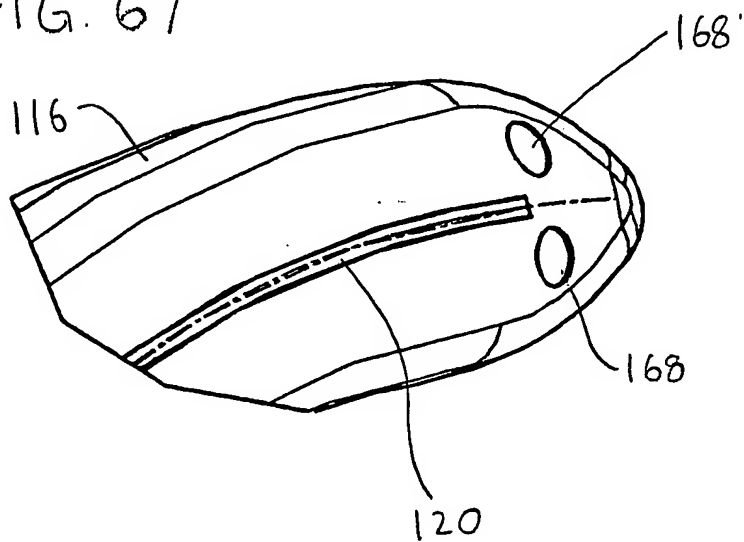


FIG. 67



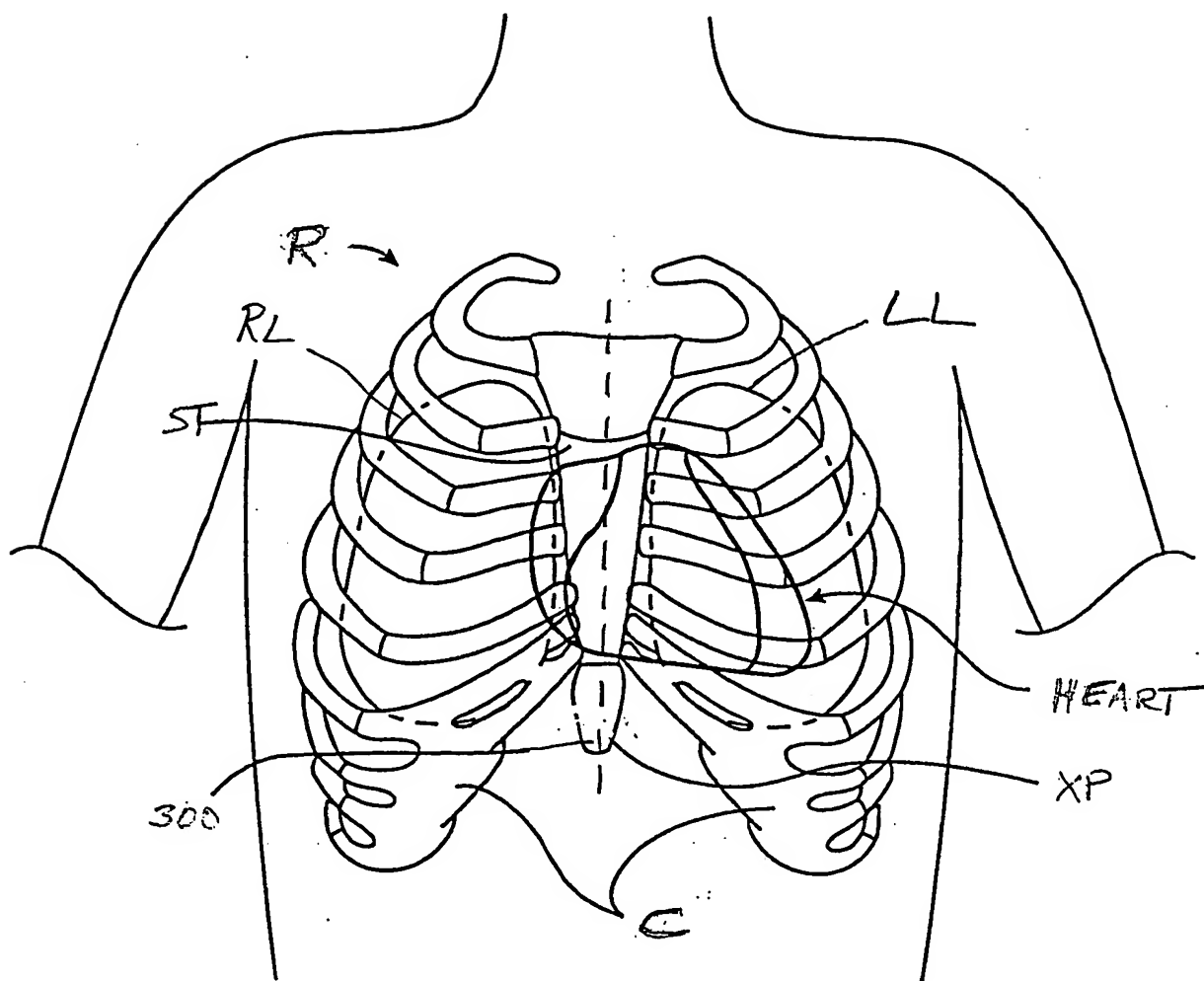
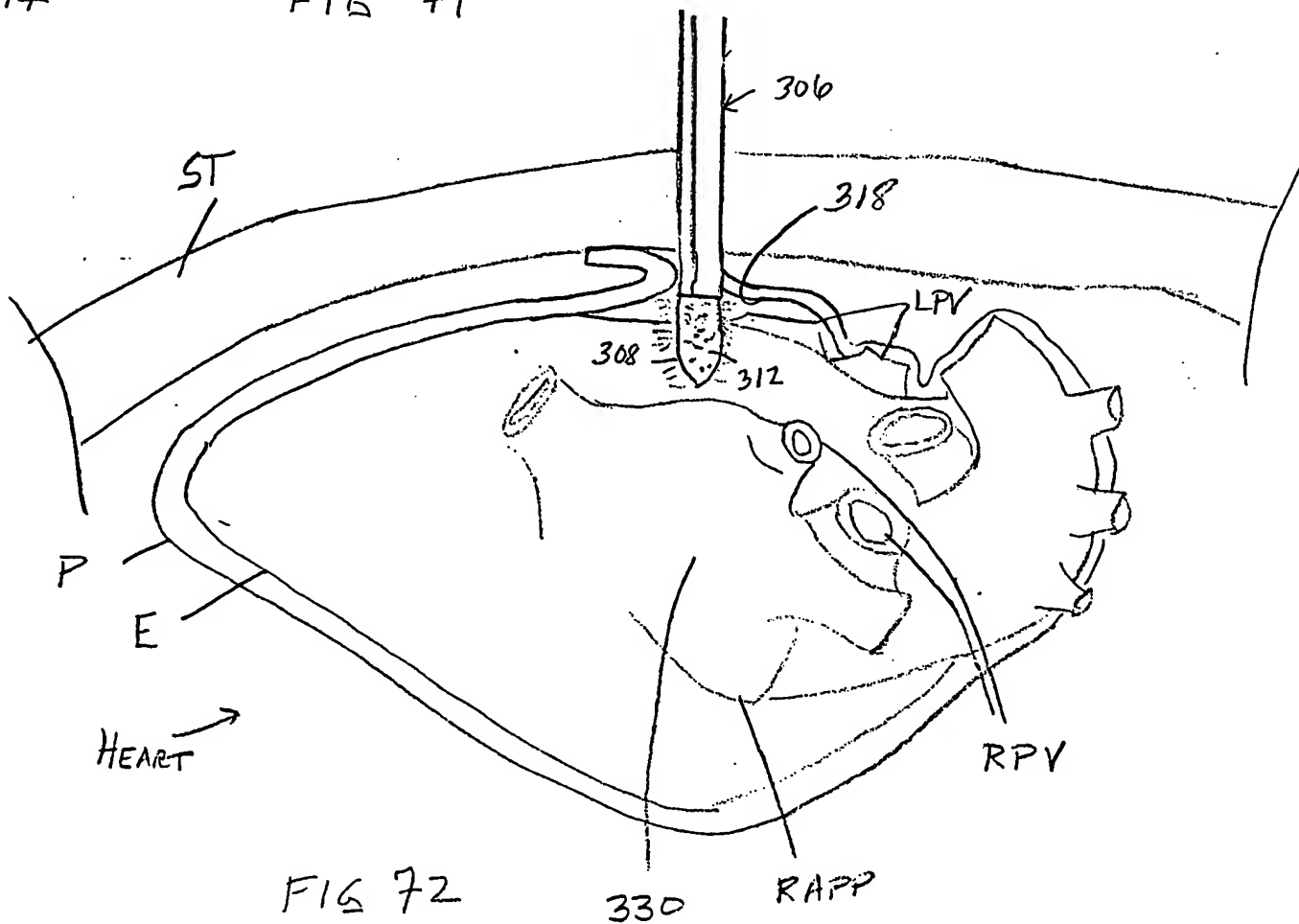
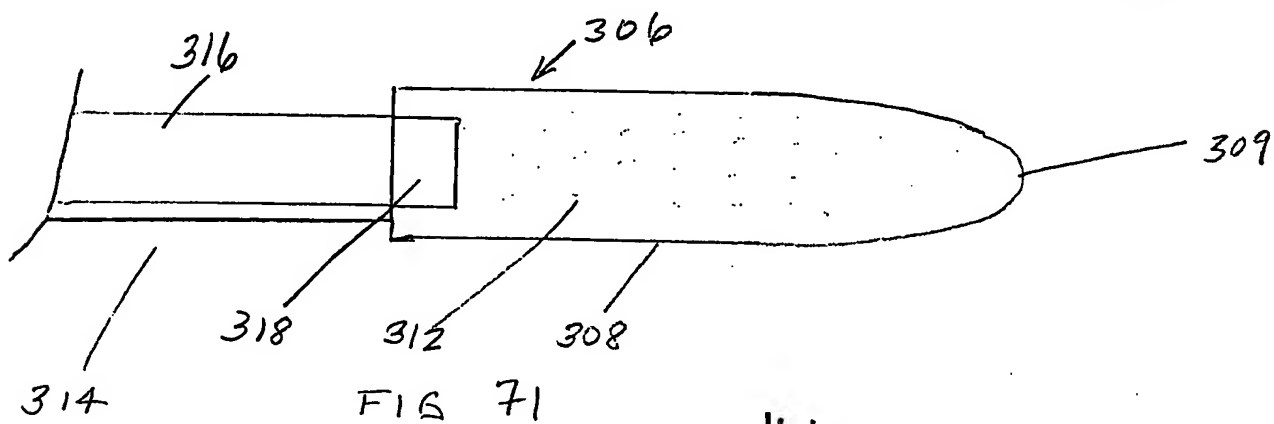
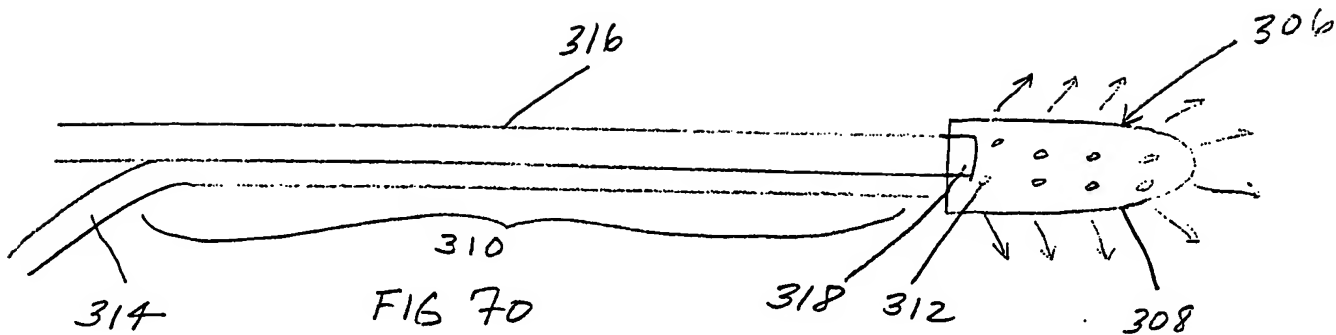


FIG. 68



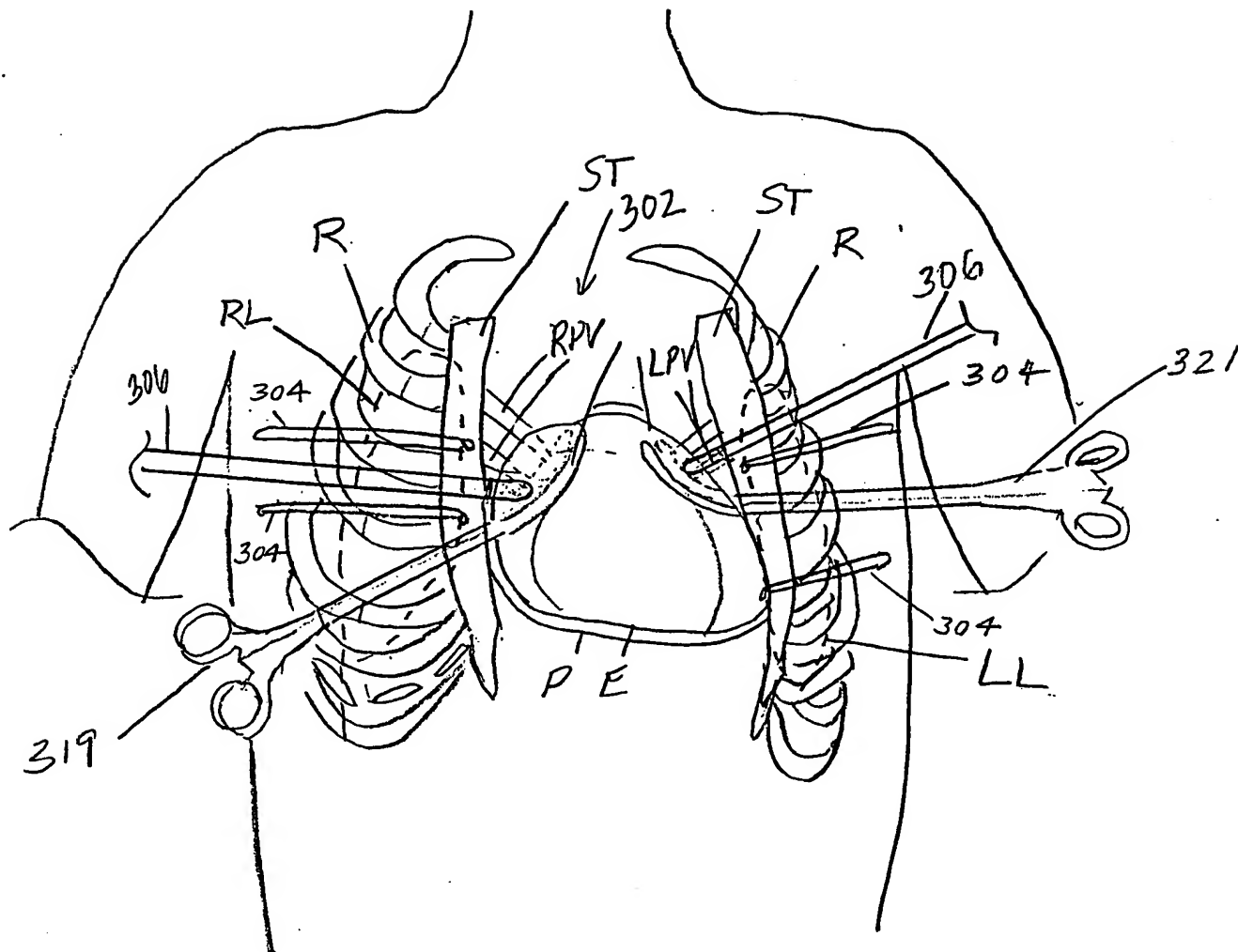


FIG. 73

FIG 74

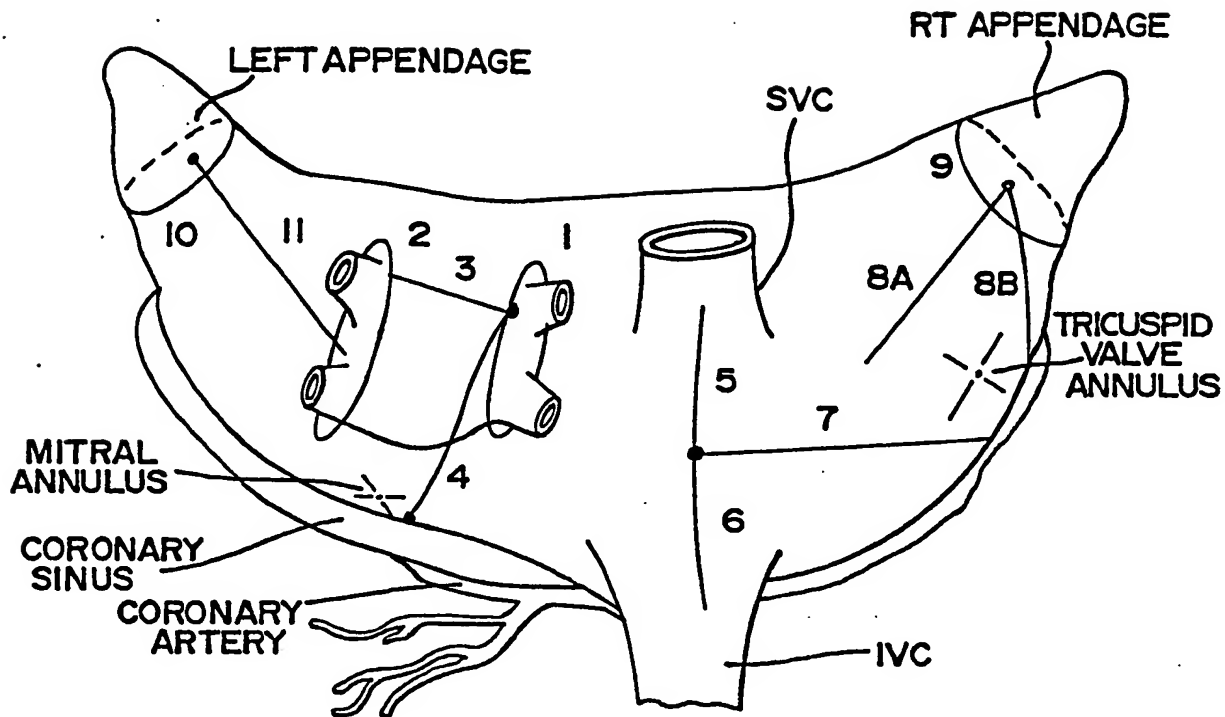


FIG. 75

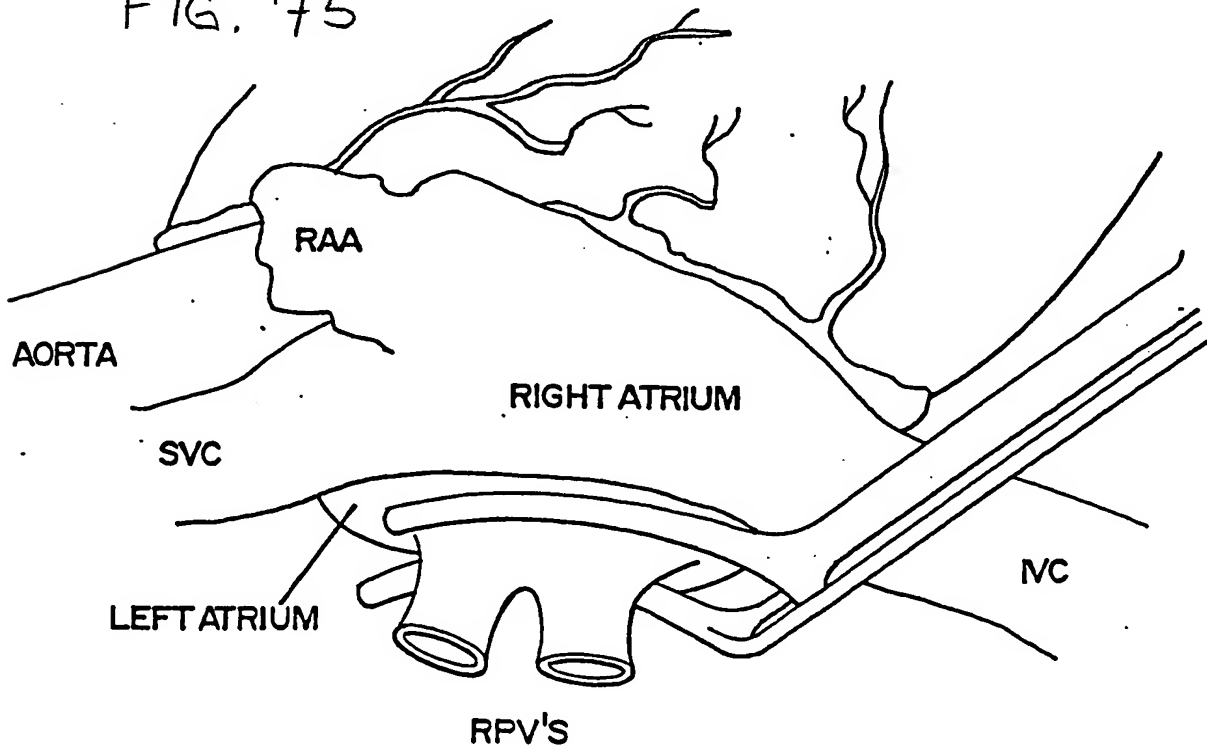


FIG. 76

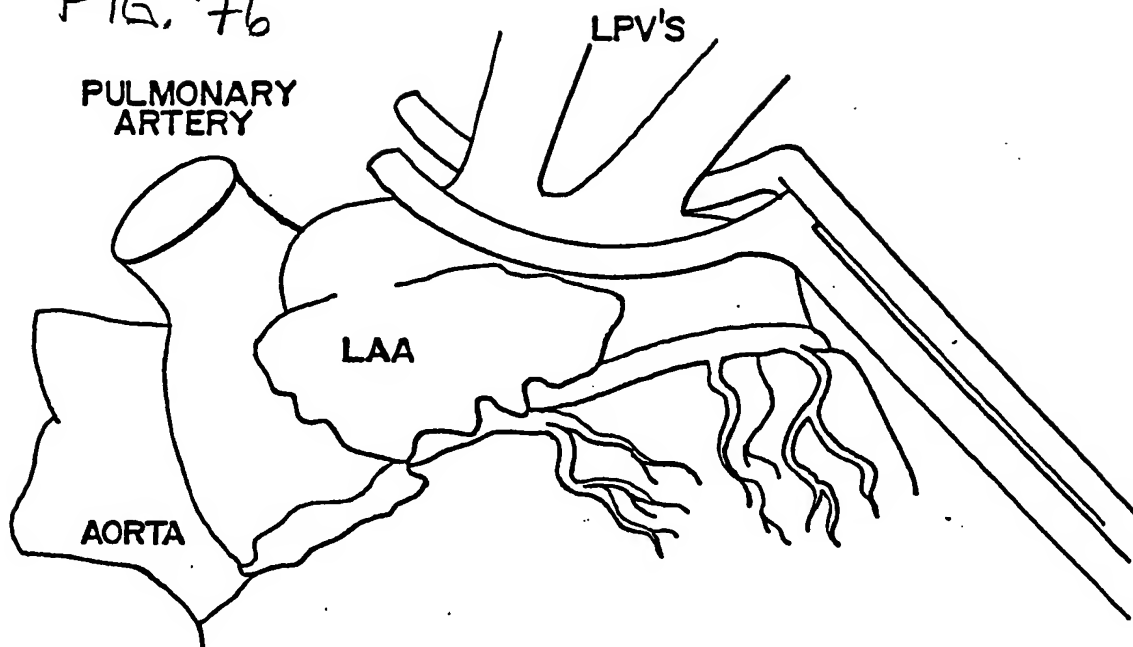
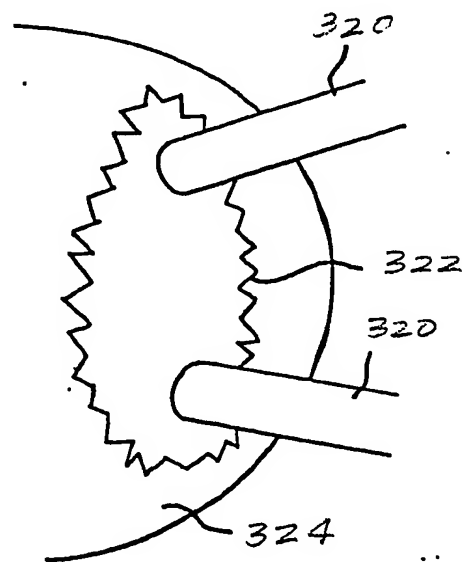


FIG. 77



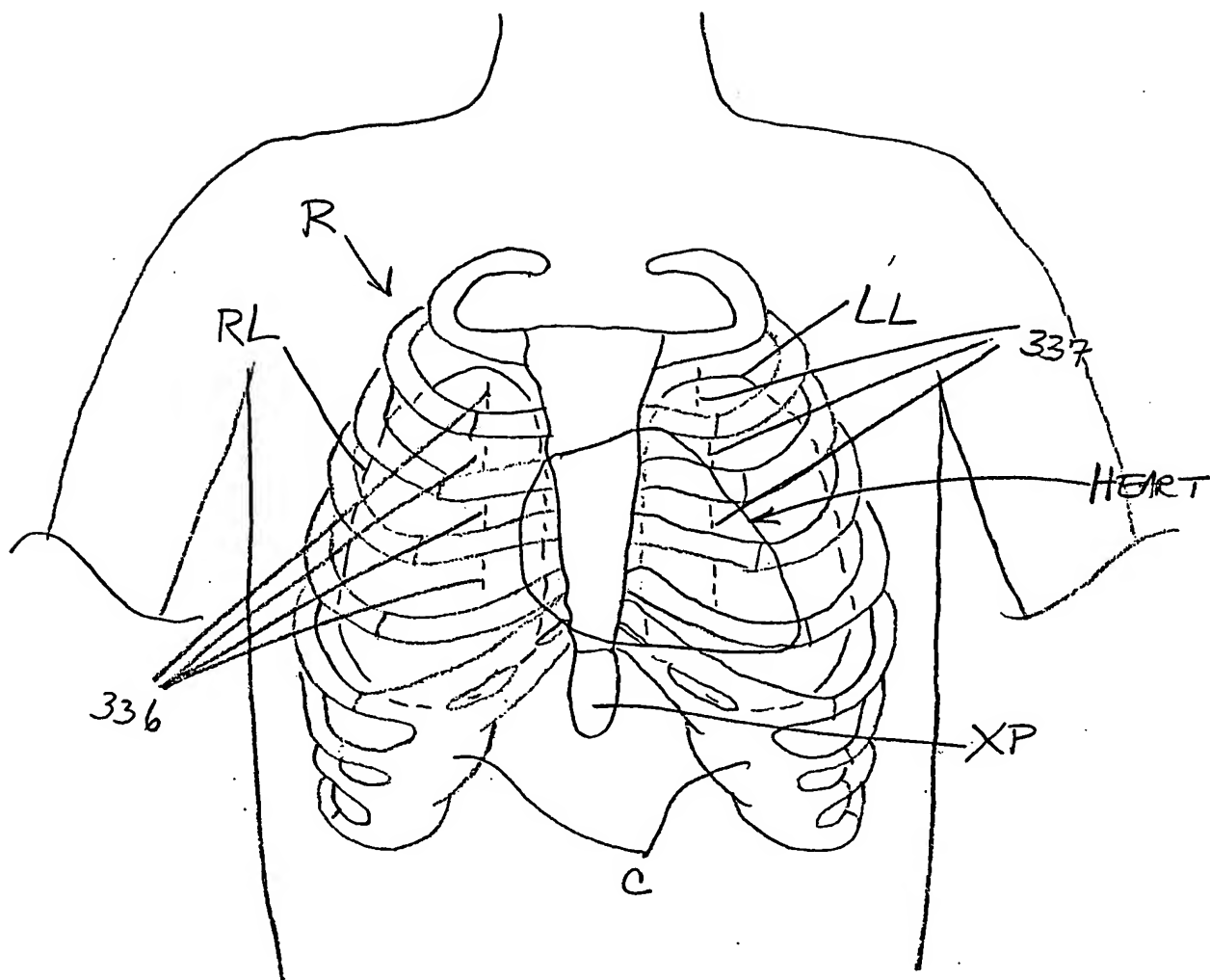


FIG. 78

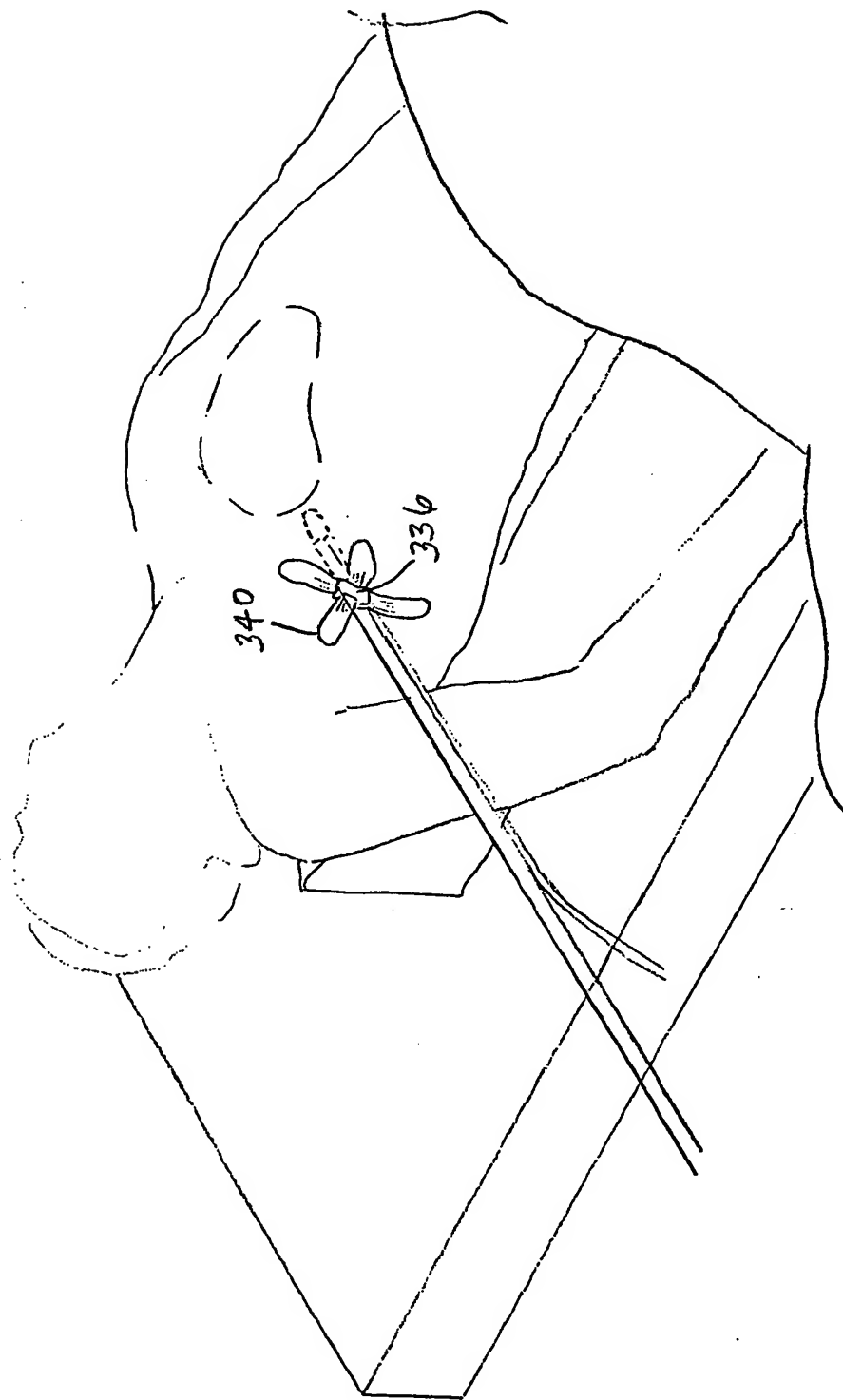


FIG. 79

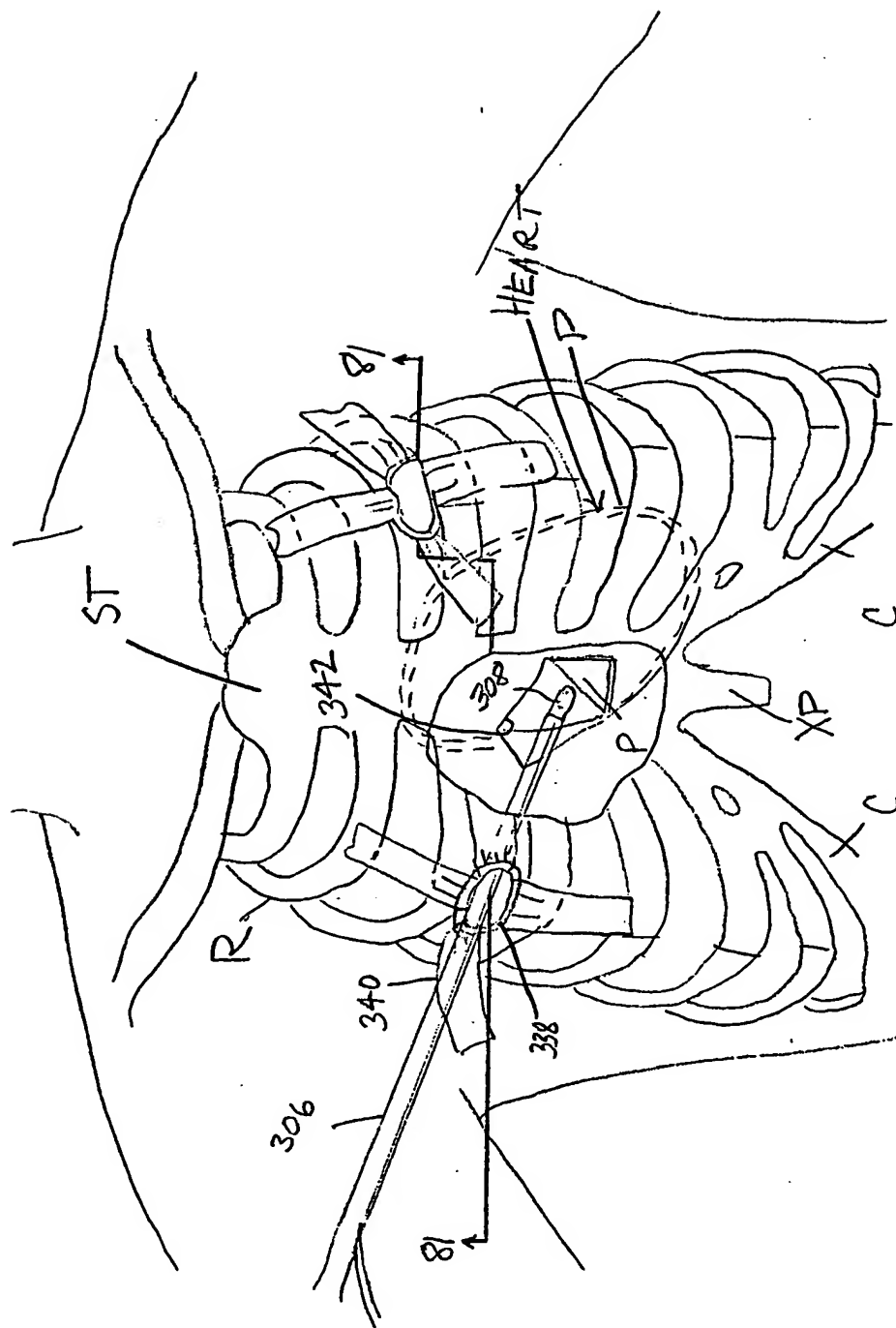


FIG. 80

FIG. 81

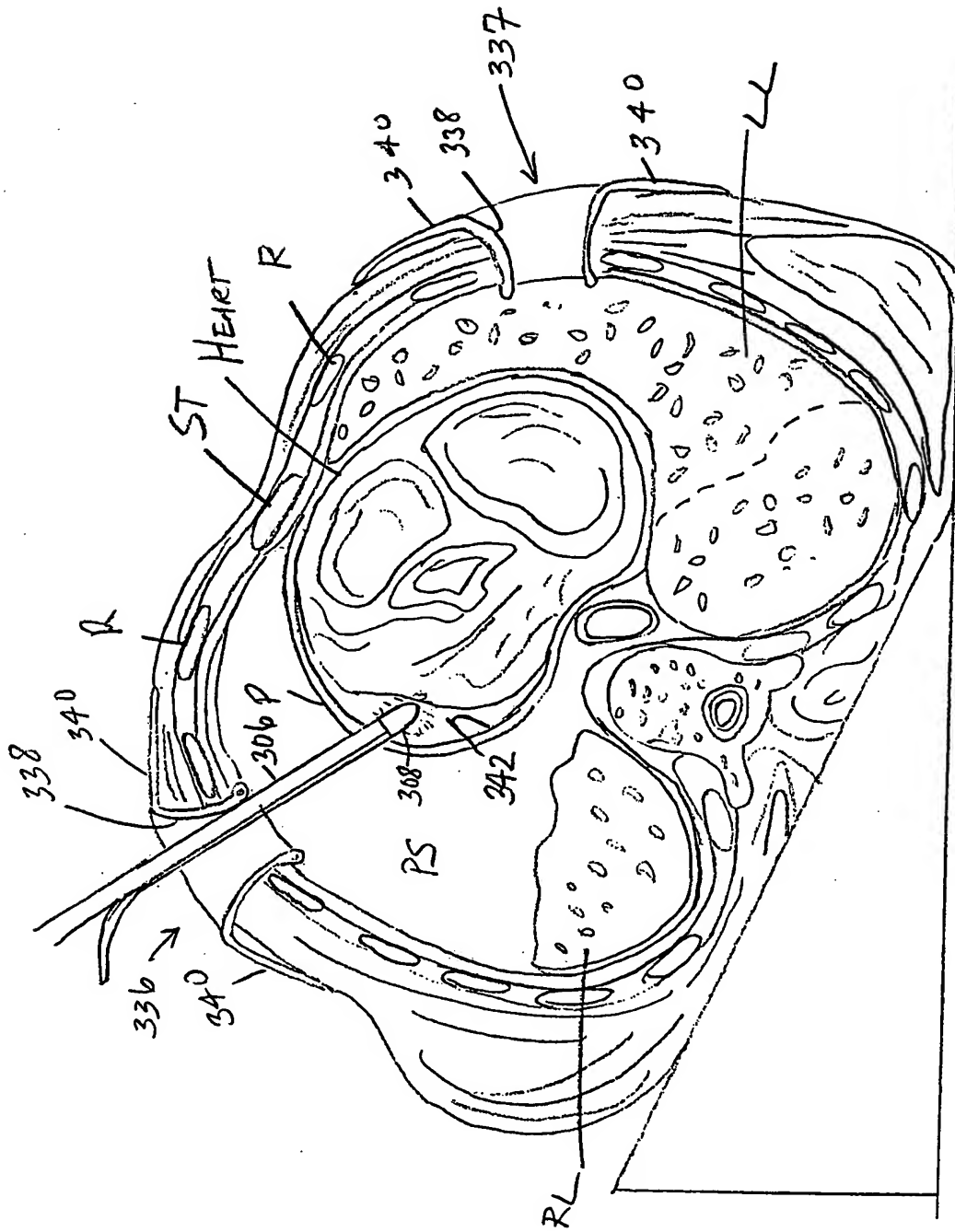


FIG. 81

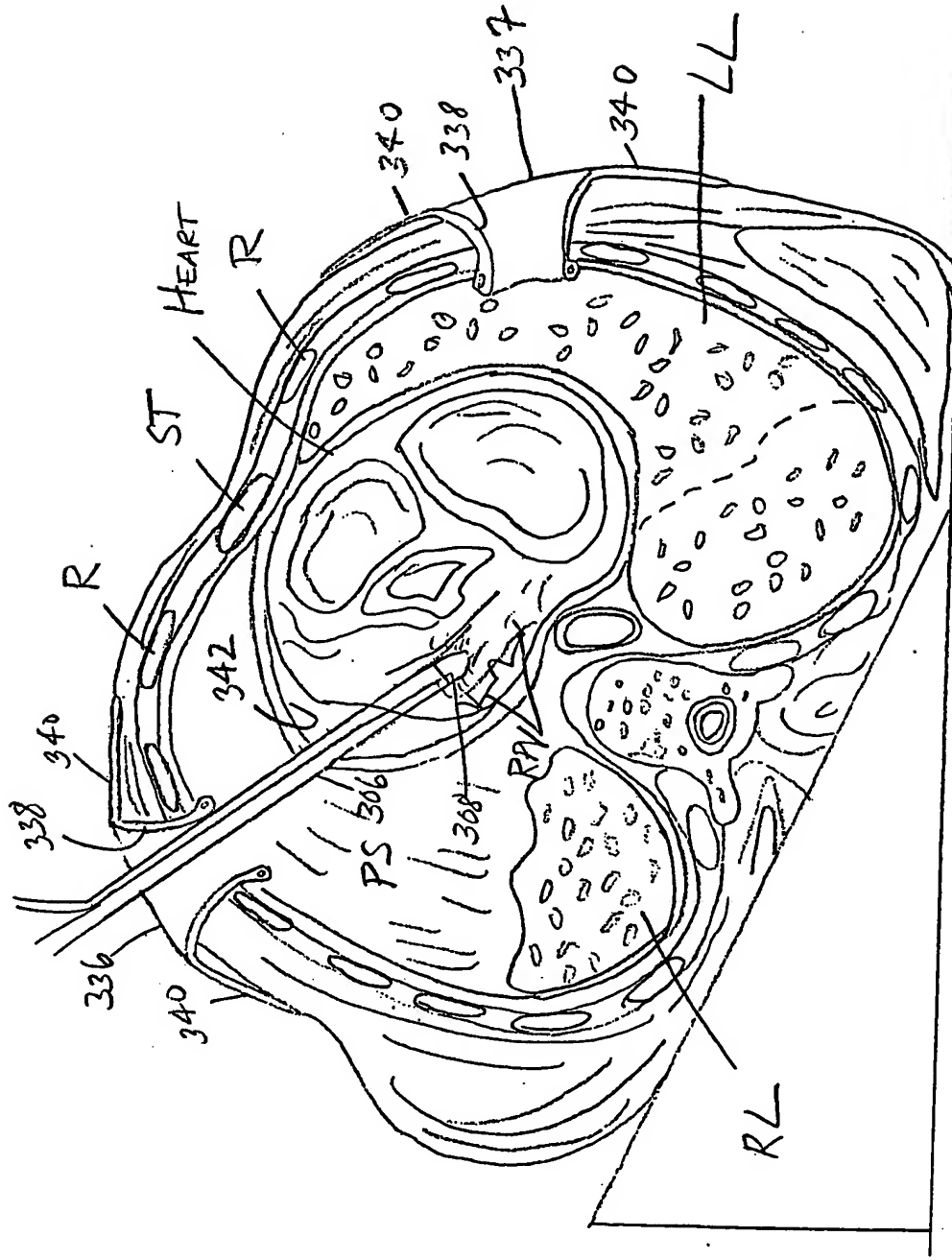


FIG. 82

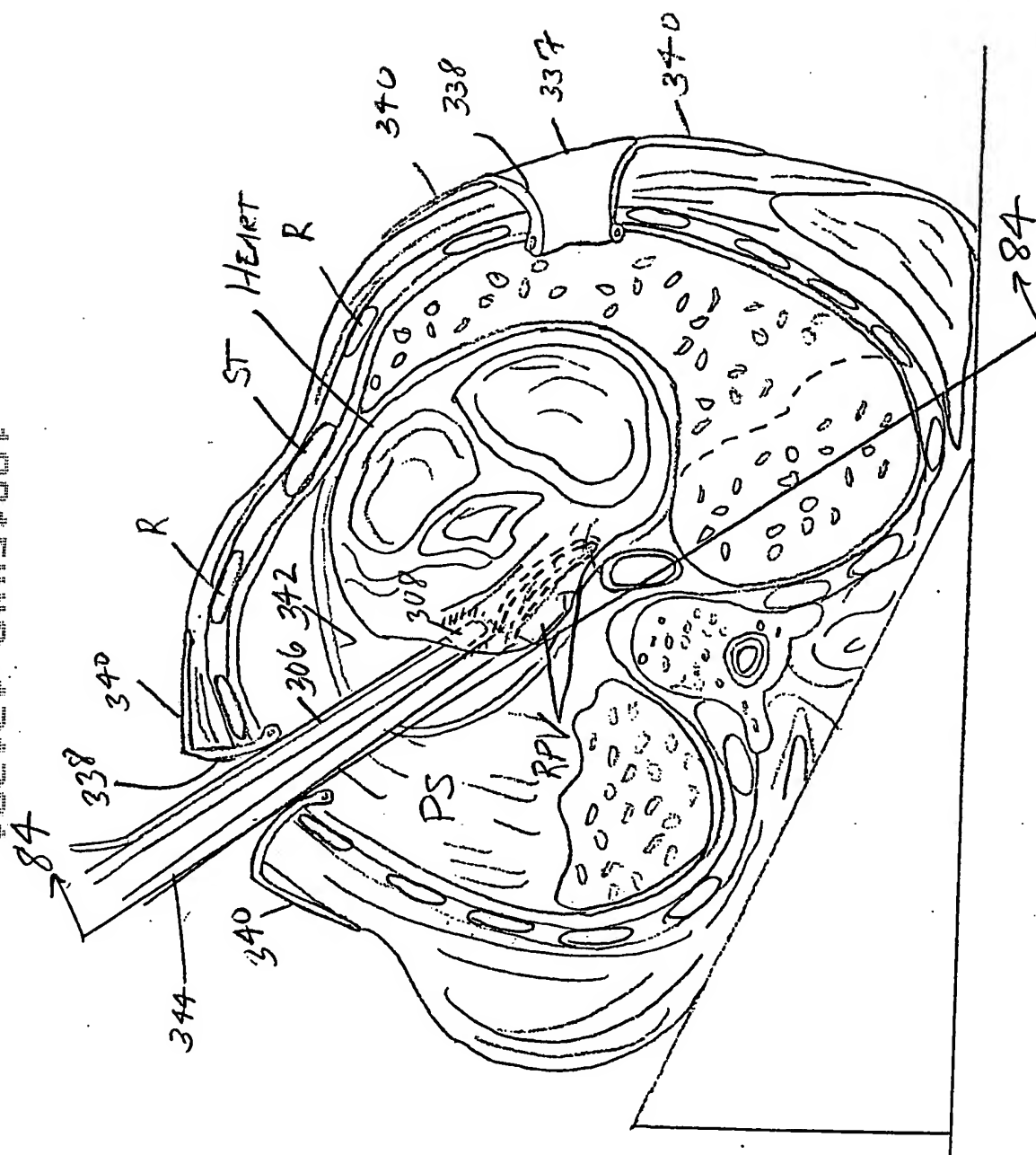
[illegible]

FIG 83

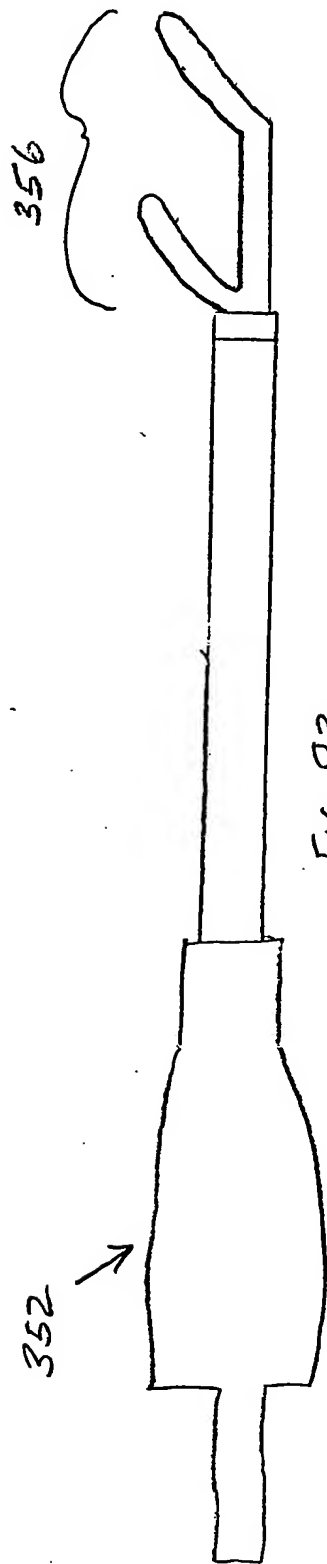


FIG. 83

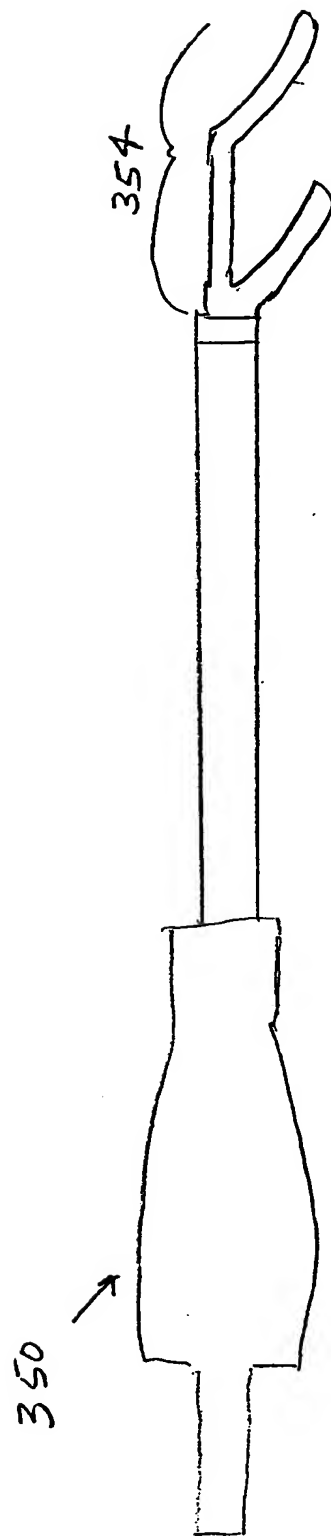


FIG. 83A

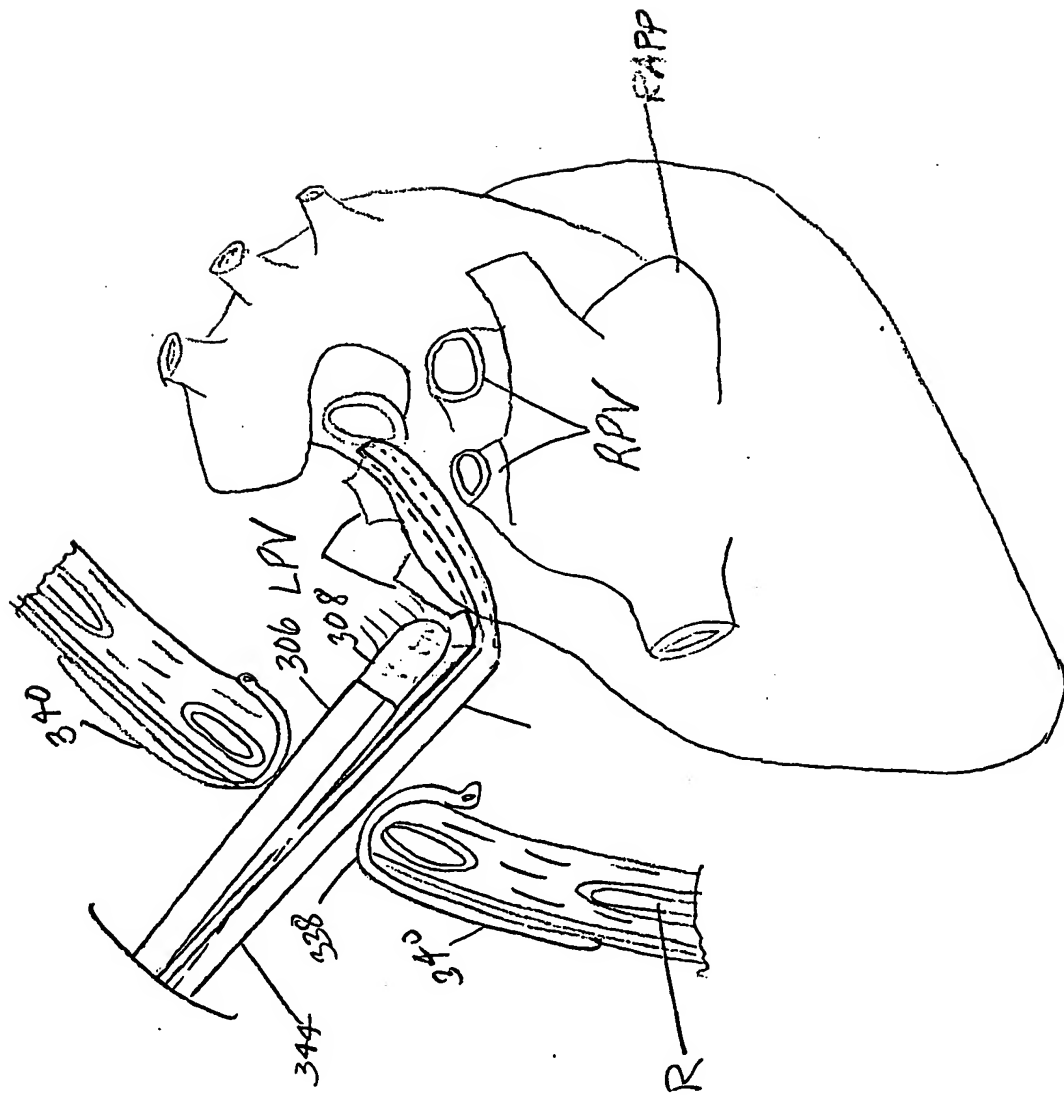


FIG 84

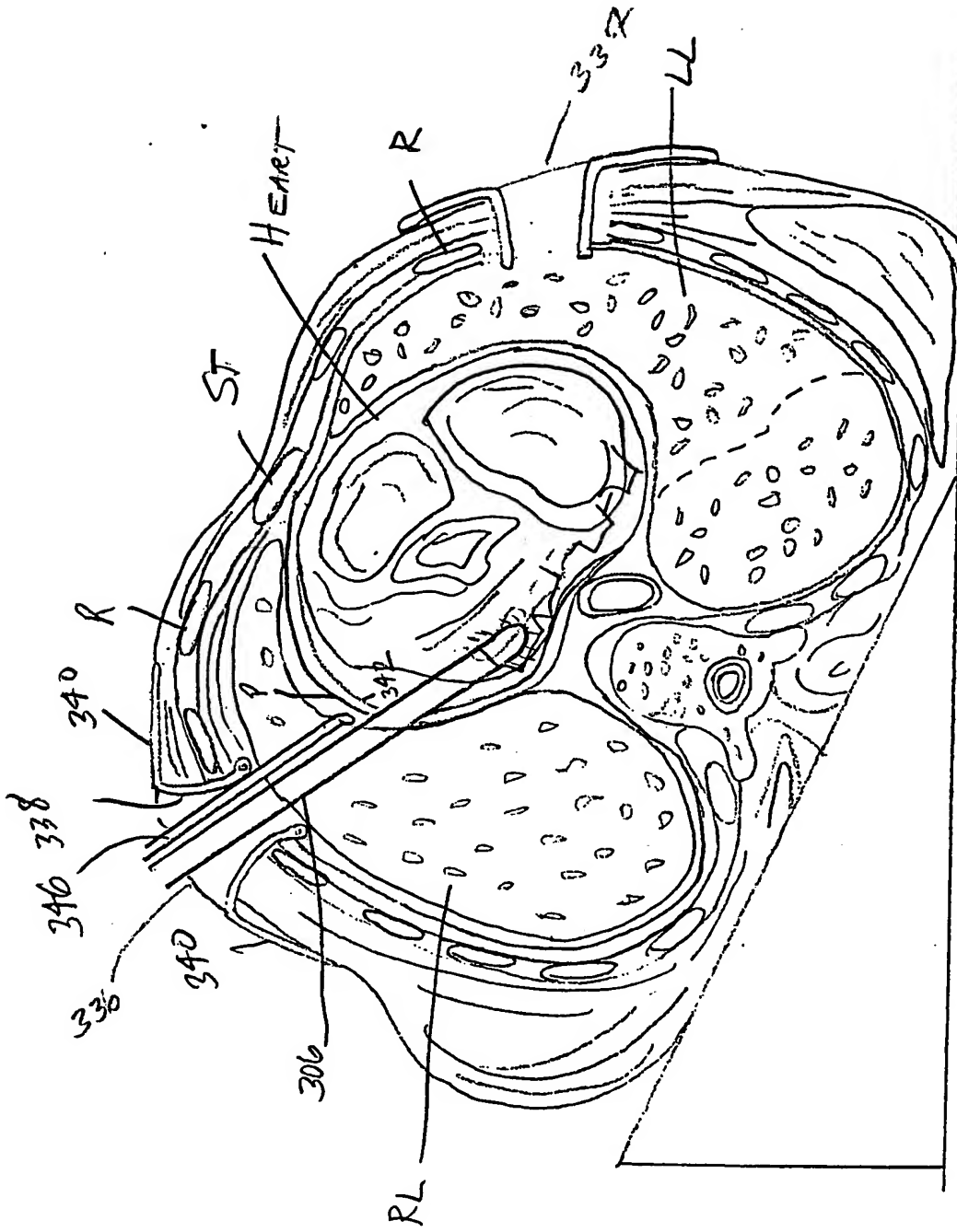


FIG. 85

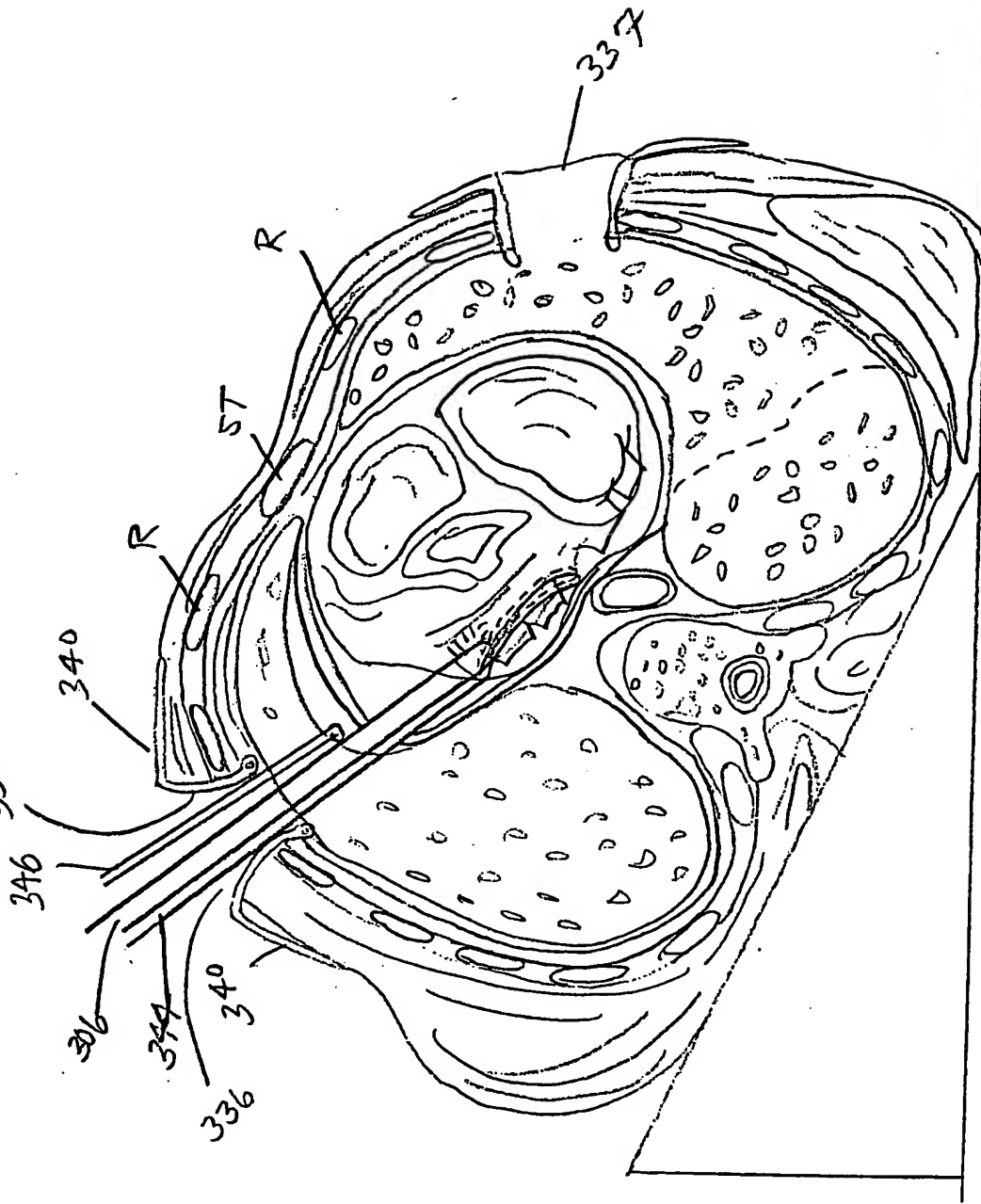


FIG 86

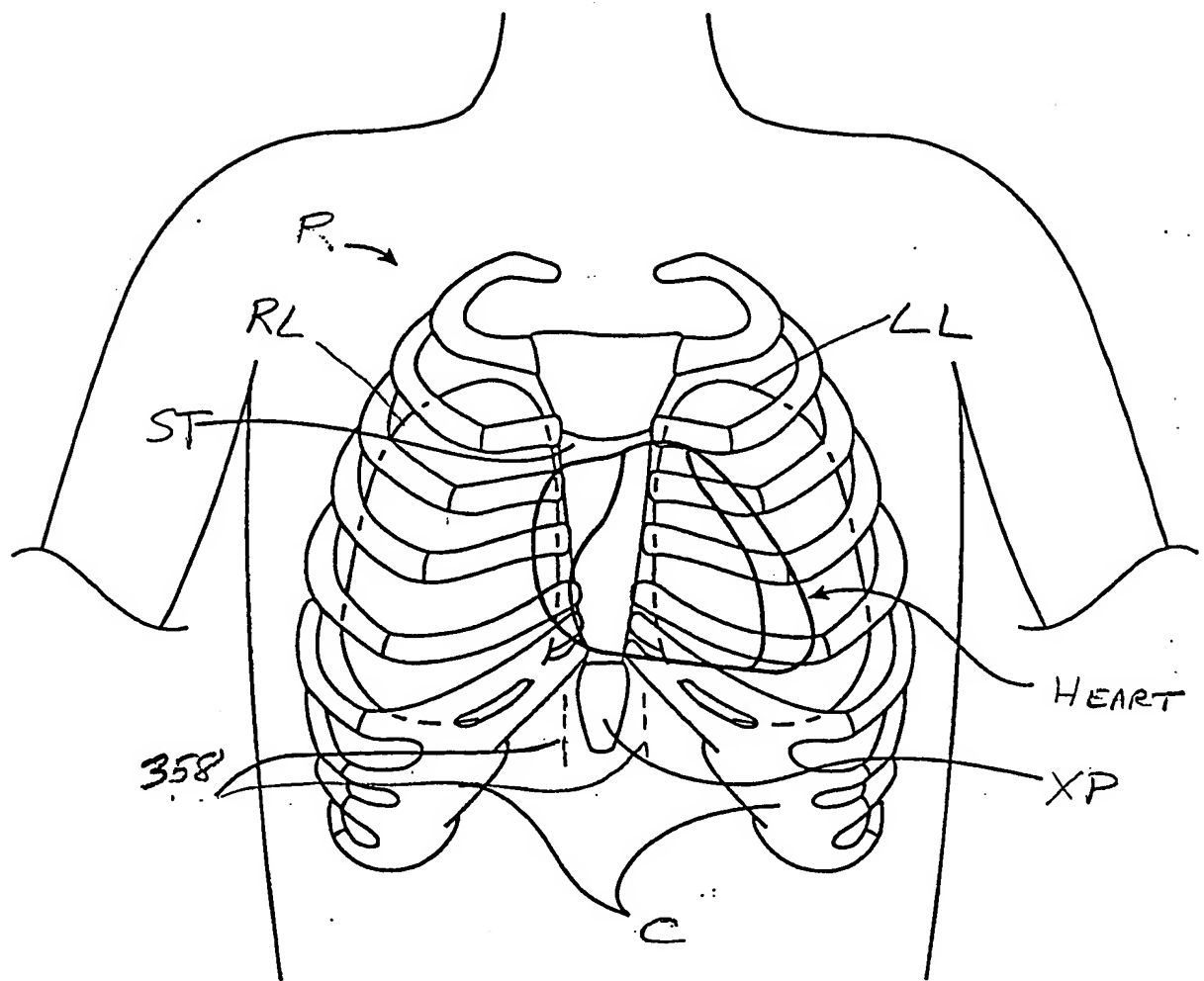


FIG. . 87

40042440 434304
in which there is a hole in the middle

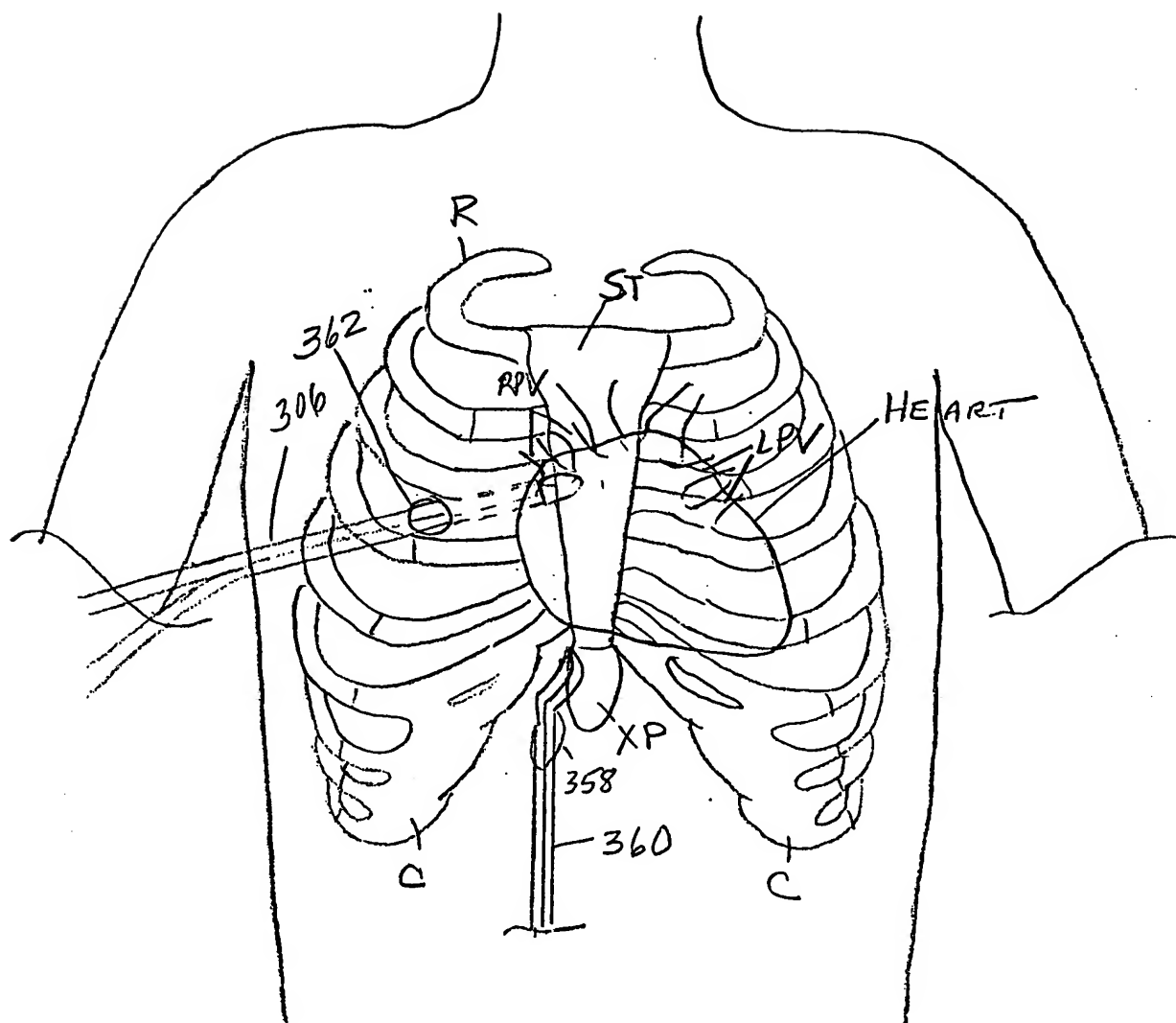


FIG. 88

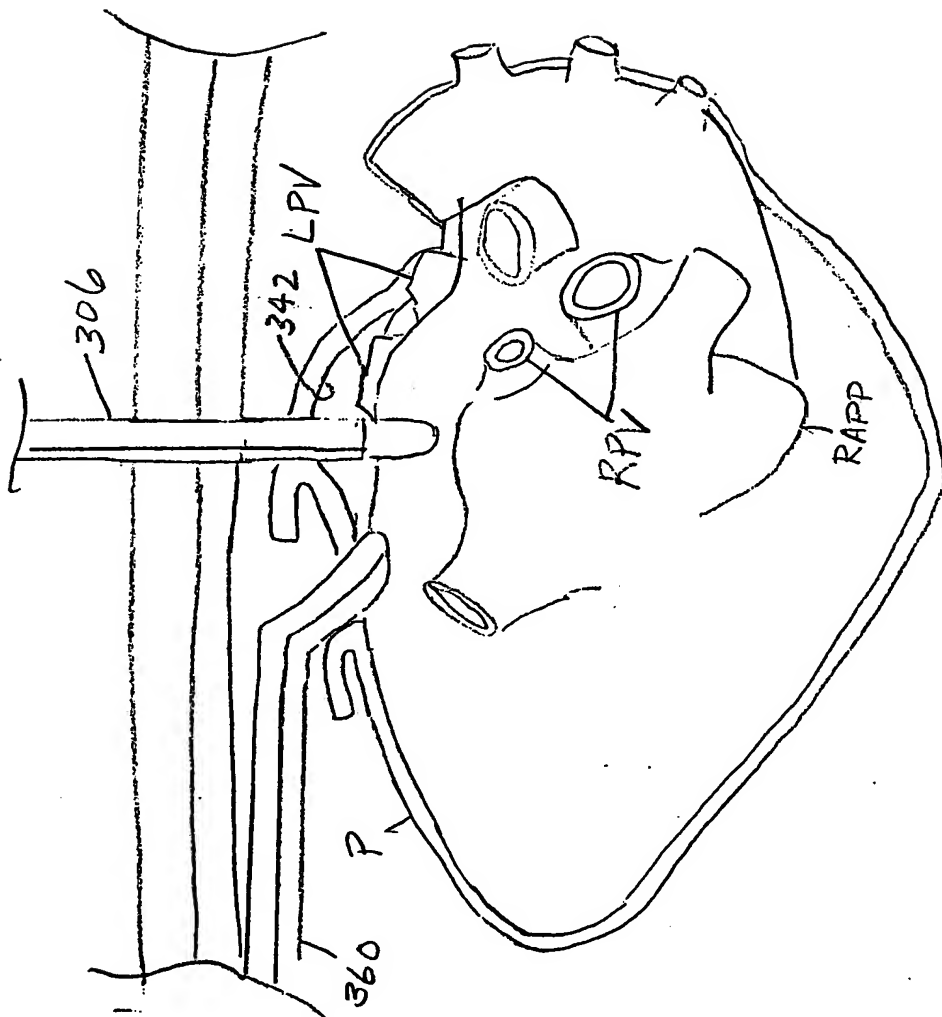


FIG 89

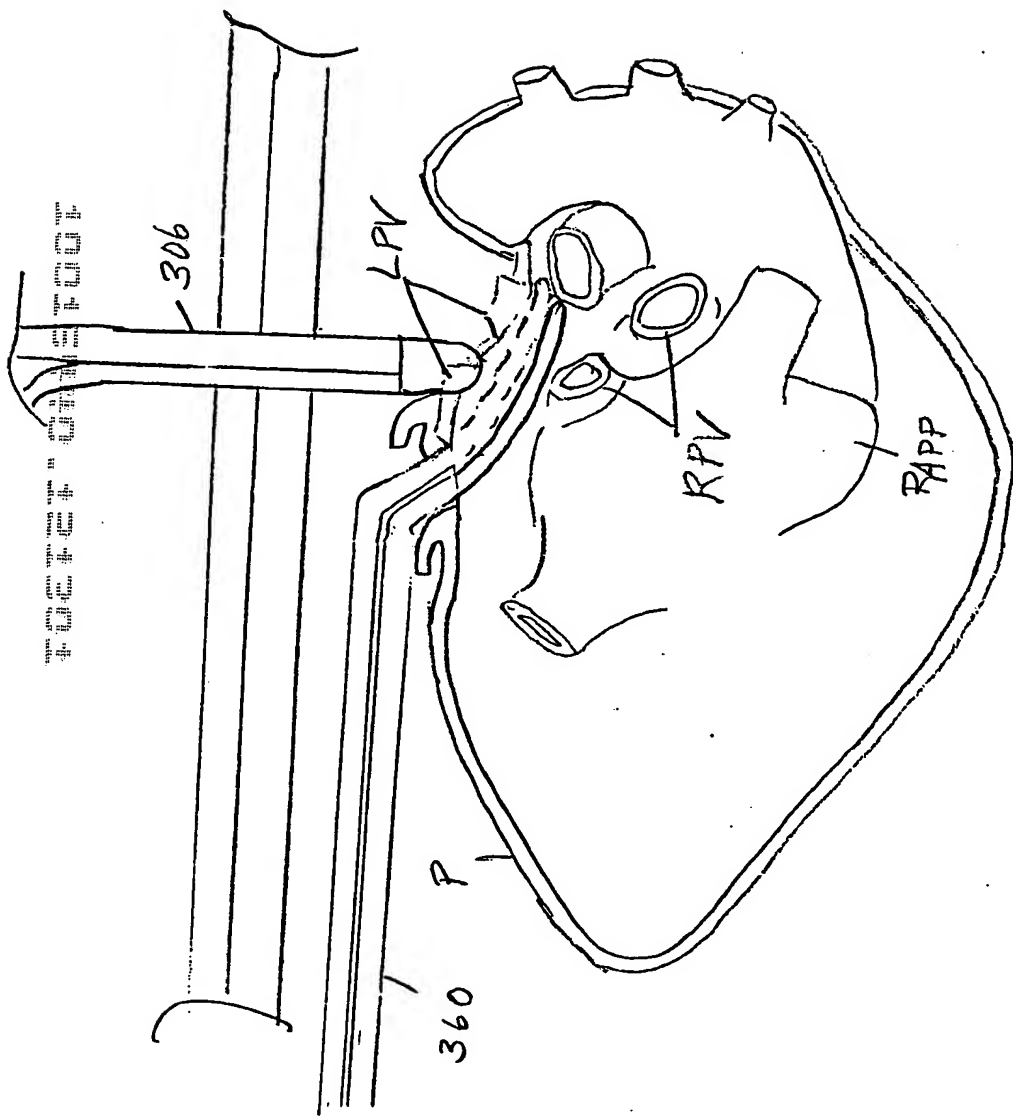


FIG. 90

FIG. 91

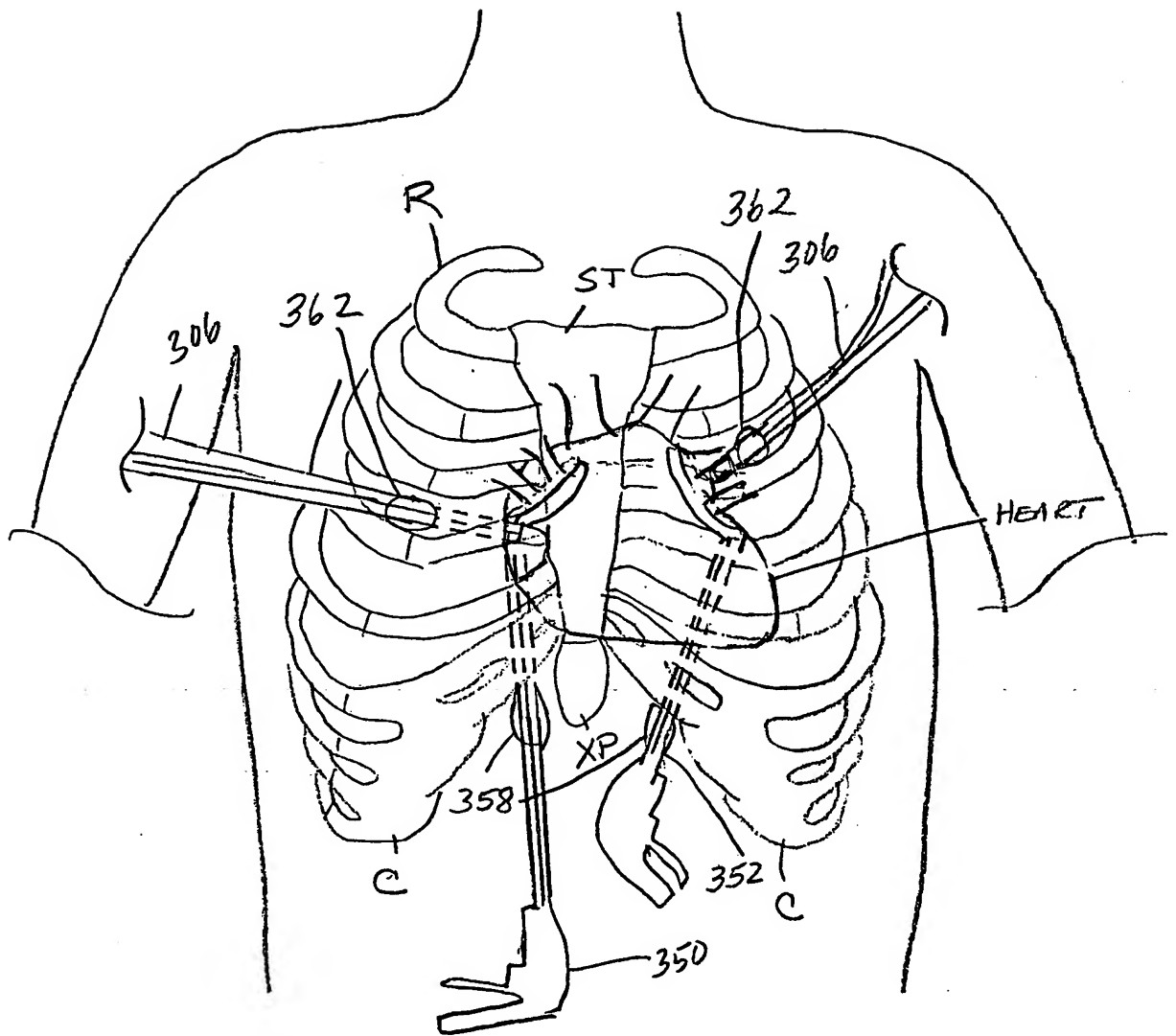
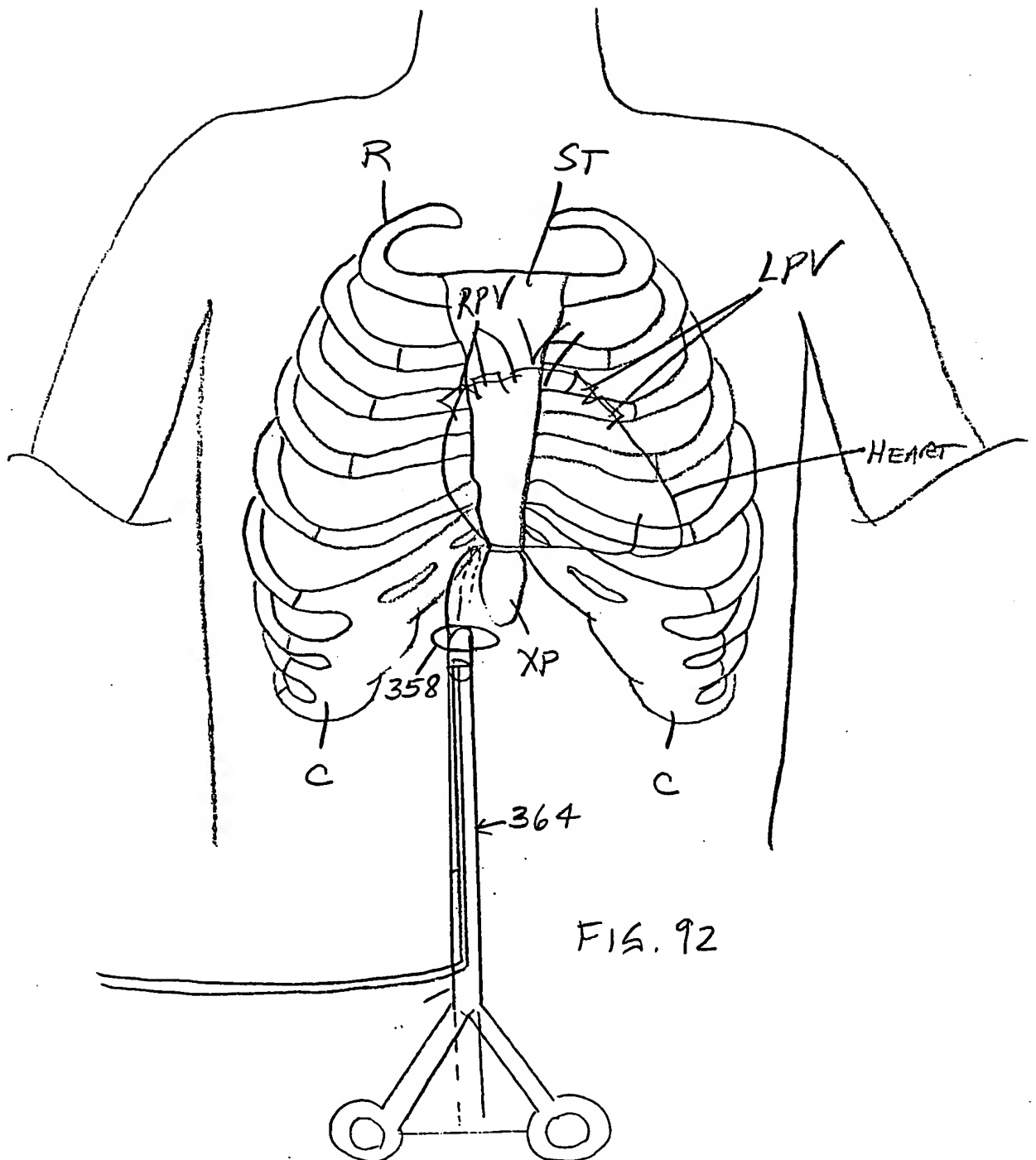


FIG 91



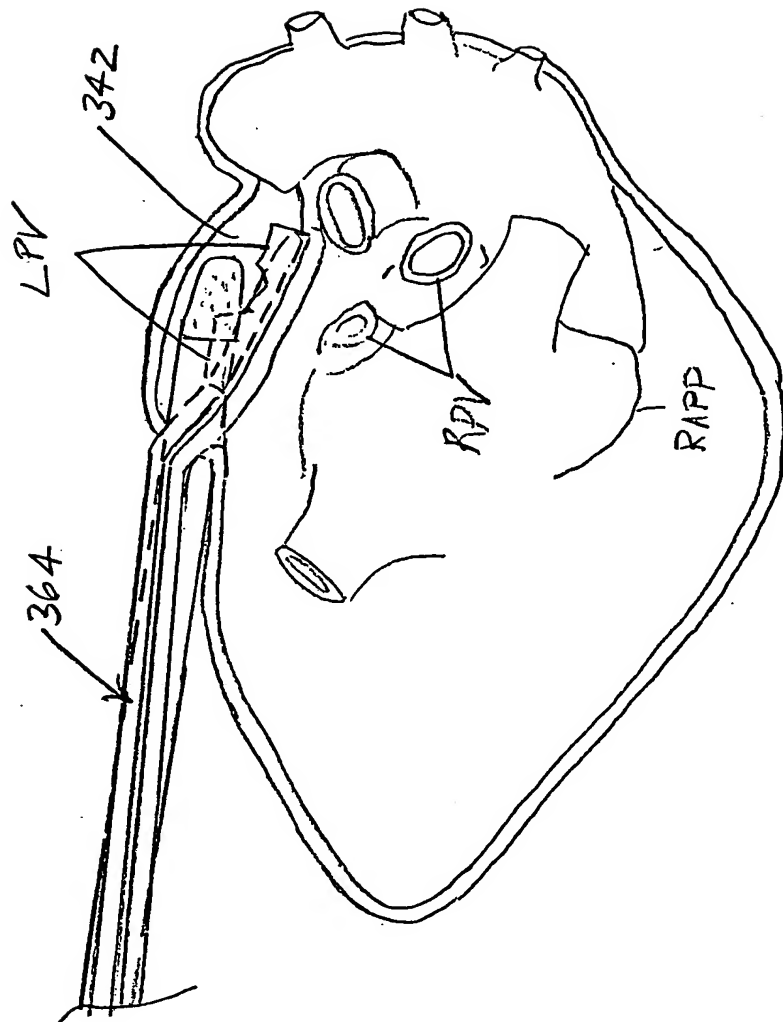


FIG 93

X

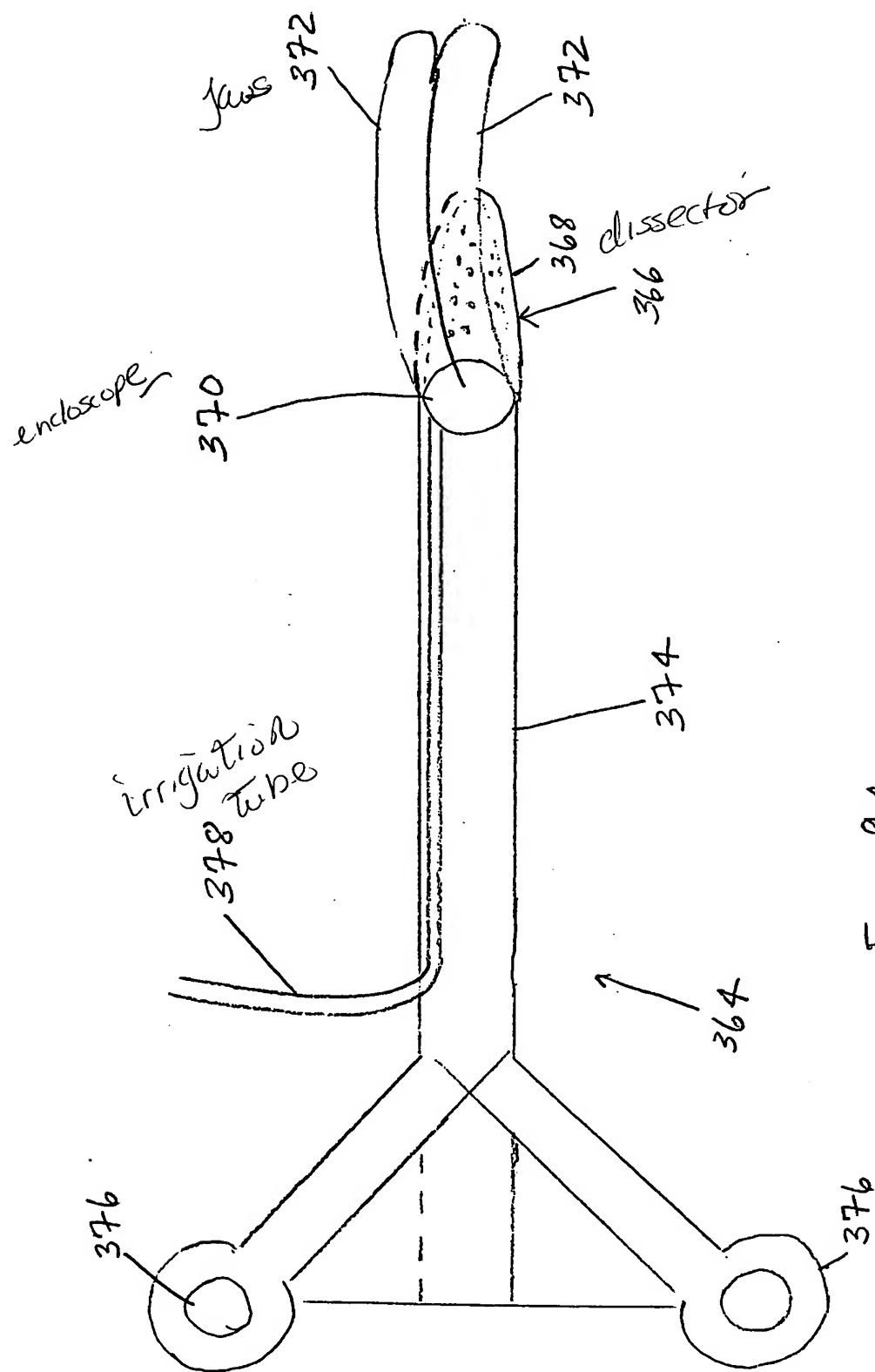


FIG. 94

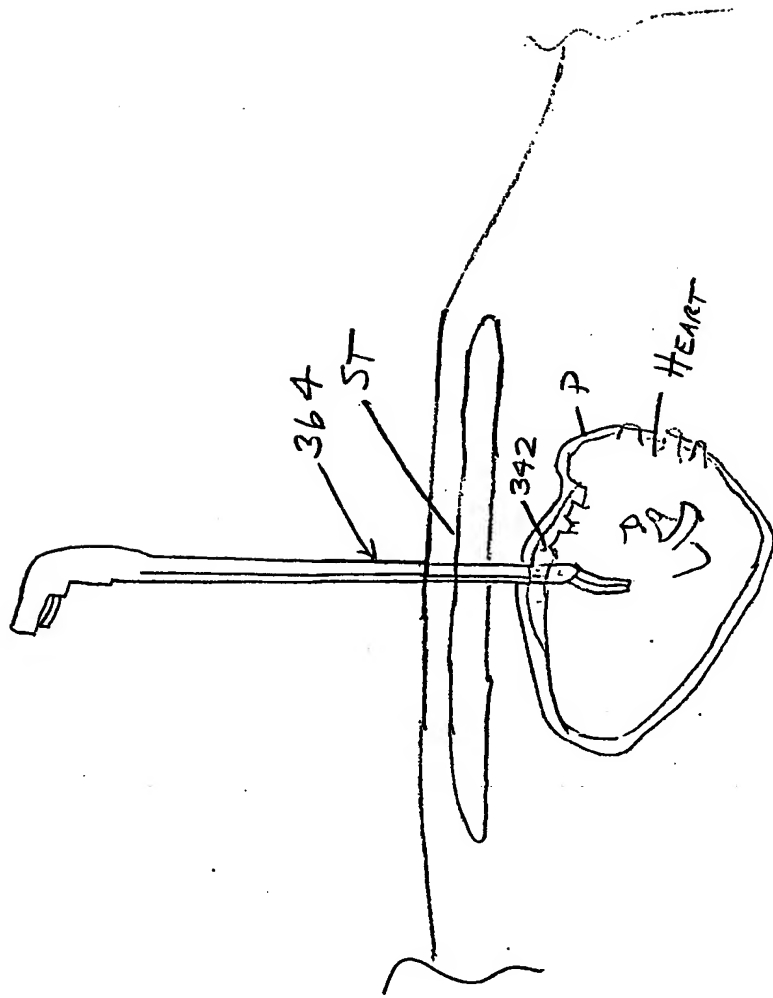


FIG. 95

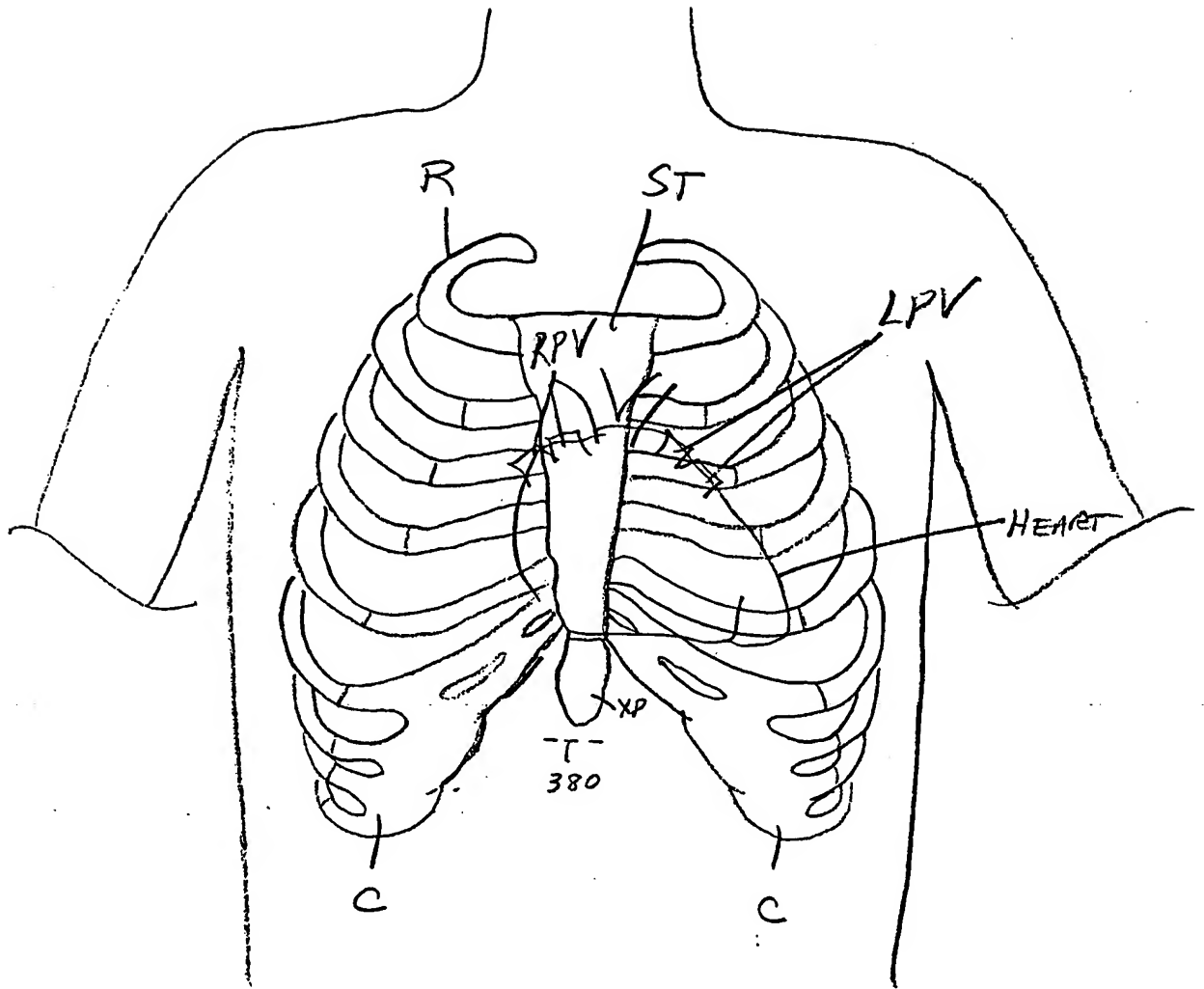


FIG. 96

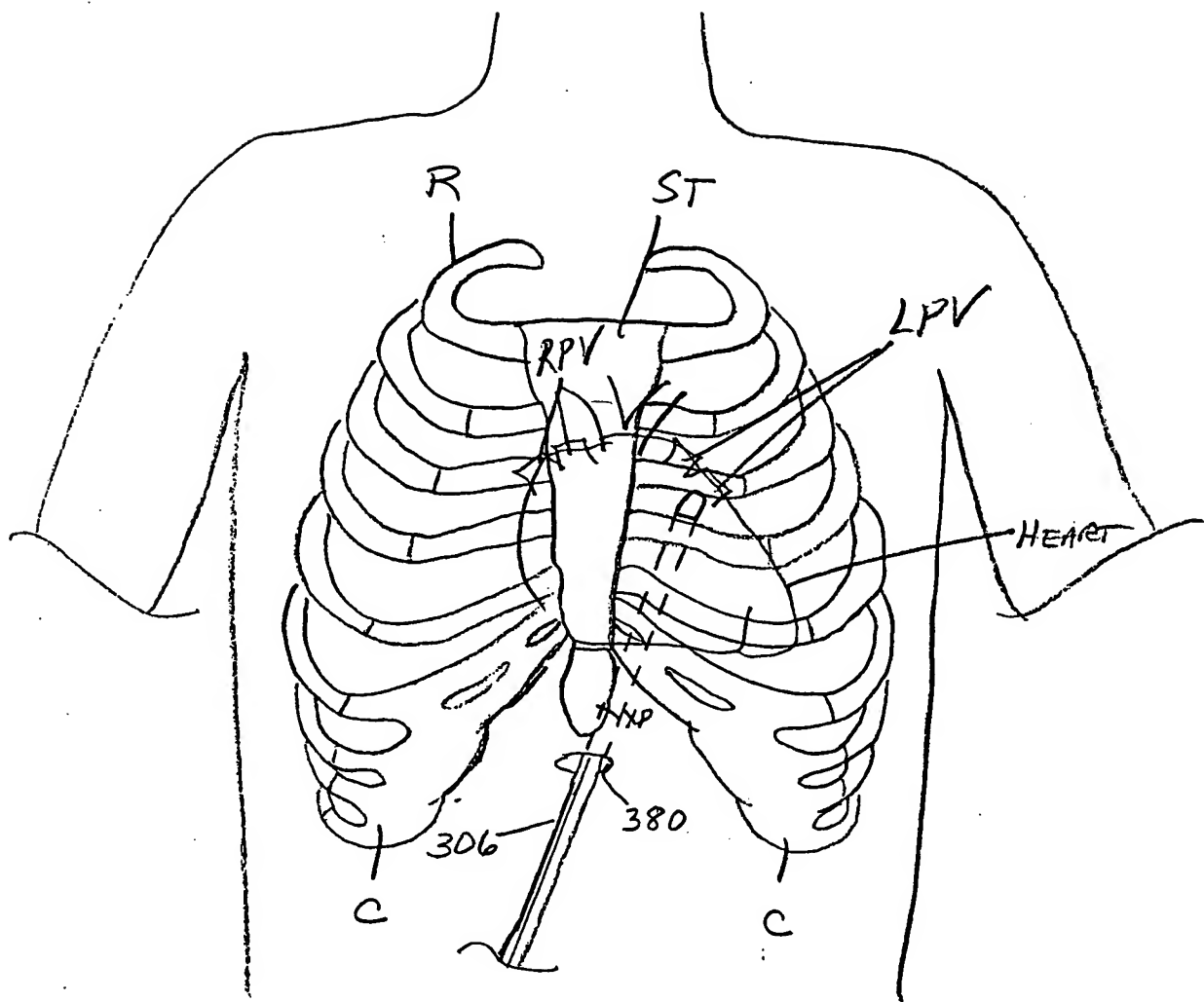


FIG. 97

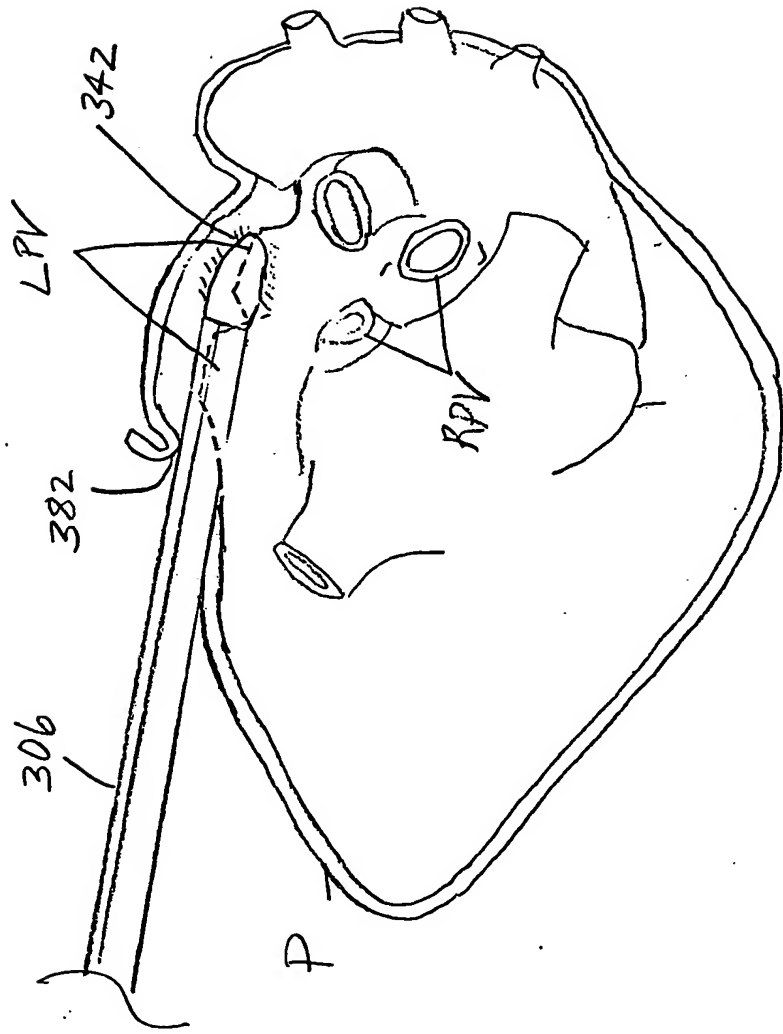


FIG. 98

FIG. 99 is a schematic diagram of a heart with a catheter system inserted into the right ventricle (RV) and the right atrium (RA). The catheter system includes a main catheter (306) and a side catheter (382). The side catheter (382) is inserted into the right ventricle (RV) and has a distal tip (342) positioned near the tricuspid valve. The main catheter (306) is inserted into the right atrium (RA) and has a distal tip (342) positioned near the tricuspid valve. The heart is labeled with 'P' for pericardium, 'RV' for right ventricle, and 'RA' for right atrium. The catheter system is shown in cross-section, with the main catheter (306) and side catheter (382) having multiple lumens. The side catheter (382) is shown with a distal tip (342) that is positioned near the tricuspid valve. The main catheter (306) is shown with a distal tip (342) that is positioned near the tricuspid valve. The heart is shown in a cross-section, with the right ventricle (RV) and right atrium (RA) clearly visible. The pericardium (P) is also shown. The catheter system is shown in a cross-section, with the main catheter (306) and side catheter (382) having multiple lumens. The side catheter (382) is shown with a distal tip (342) that is positioned near the tricuspid valve. The main catheter (306) is shown with a distal tip (342) that is positioned near the tricuspid valve.

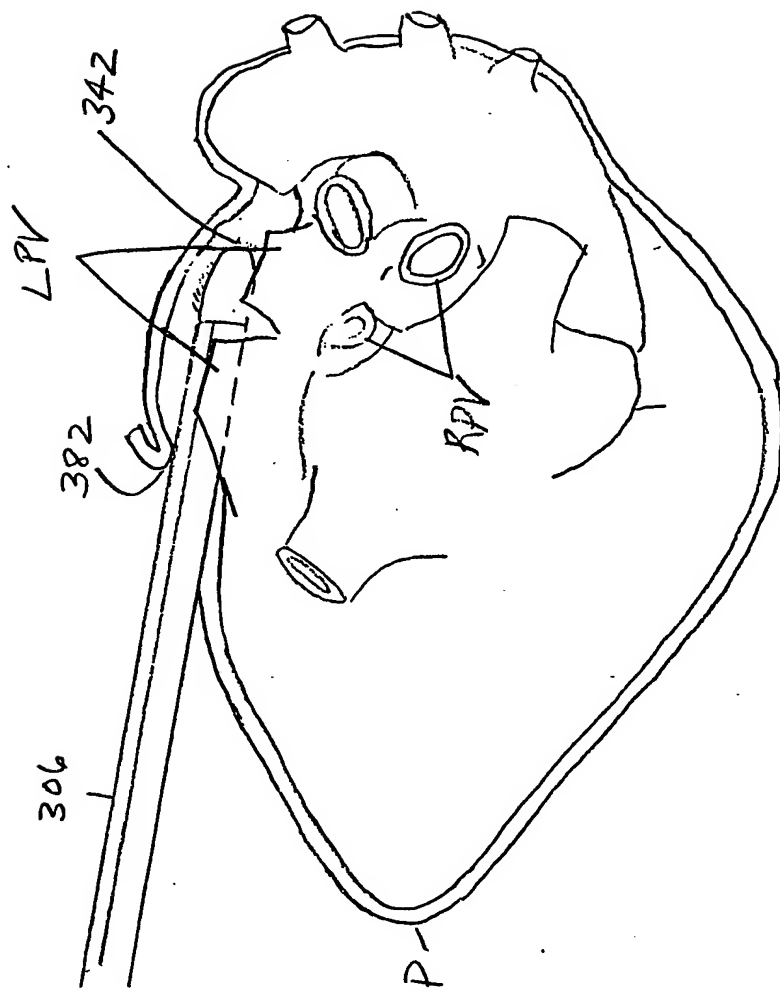


FIG. 99

X

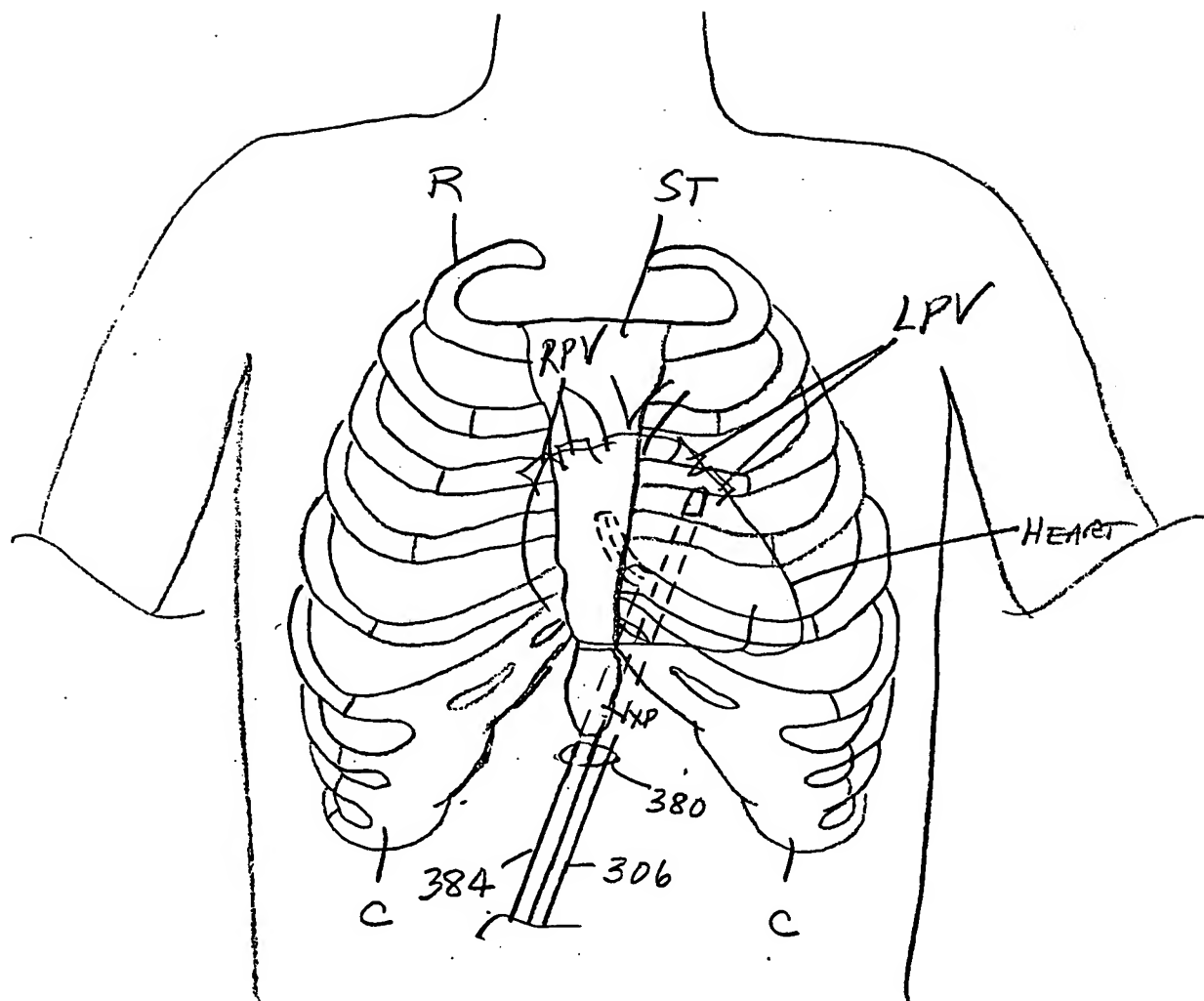


FIG. 100

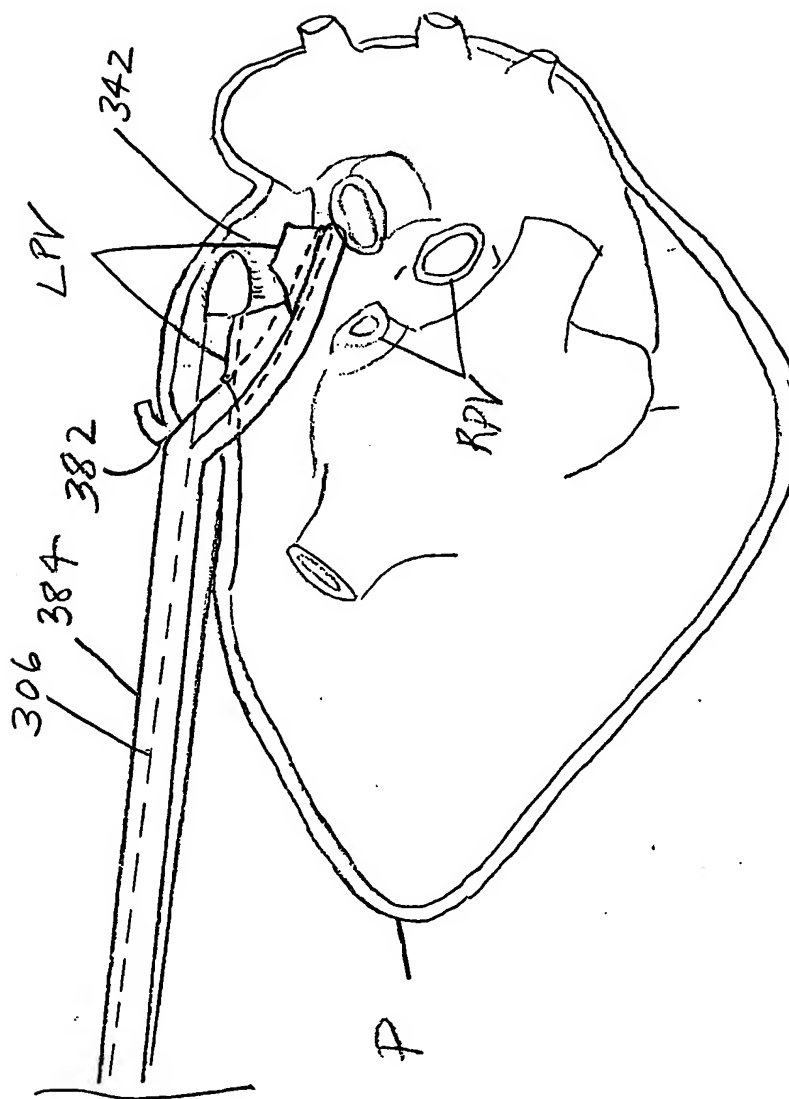


FIG. 101